

ἌΤΛΑΣ ΟΥΡΑΝΙΟΣ,
The COELESTIAL ATLAS;
OR, A NEW
EPHEMERIS
For the YEAR of our LORD 1795.

Being the Third after
BISSEXTILE, or LEAP-YEAR.

Wherein are contained
The Heliocentrick and Geocentrick Places of the Planets,
the ECLIPSES of the Luminaries, and other remarkable PHENO-
MENA that will happen this Year.

Carefully computed
From the genuine TABLES of Dr. HEND HALLEY,
those of Professor MAYER, and other the and most correct
ASTRONOMICAL TABLES.

— A L S O —

A Complete ALMANACK, containing the FEASTS and FASTS
of the Church of ENGLAND; the Times of the LUNATIONS;
the Rising and Setting of the Sun, Moon, and Planets, &c.

Adapted to the
Meridian and Latitude of the Royal Observatory of
GREENWICH.

To which are added,
Several useful TABLES: As, a TABLE of the Sun's
semi-diurnal Arcs, by which the Times of the Sun's Rising and
Setting may be known by Inspection, on every Day in the Year, and
in any Part of GREAT-BRITAIN or IRELAND; a TIDE-TABLE,
and a very correct one of the Eclipses of JUPITER's first Satellite;
a TABLE of the Sun's Right-Ascension; various exact TABLES of
the most remarkable fixed Stars, corrected from Mr. FLAMSTEED's
Catalogue; and, lastly, a correct TABLE of Latitudes and Longi-
tudes of the most remarkable Places in the World.

By ROBERT WHITE

Teacher of the Mathematicks

Οἱ ἀγαροὶ διηγεῖται δοξὰν Θεῶ.

The FORTY-SIXTH IMPRESSION

LONDON: 1795

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Chronological Notes for the Year 1795.

Golden Number	-	-	10	Septuagesima Sund.	Feb.	1
Cycle of the Sun	-	-	12	Shrove Sunday	Feb.	13
The Epact	-	-	9	Easter Day	April	5
Dominical Letter	-	-	D	Whit Sunday	May	2
Number of Direction	-	-	15	Trinity Sunday	May	31
Roman Indiction	-	-	13	Advent Sunday	Nov.	29

Astronomical CHARACTERS explained.

♈ Aries	♋ Cancer	♌ Libra	♏ Capricorn
♉ Taurus	♍ Leo	♍ Scorpio	♐ Aquarius
♊ Gemini	♎ Virgo	♎ Sagittary	♑ Pisces
♄ Saturn	☉ Sol (the Sun)	☾ Luna (the Moon)	♃ Herschel, the NeworGae- gian Planet
♃ Jupiter	♀ Venus	♁ Moon's N. Node	
♂ Mars	☿ Mercury	♁ her S. Node	

♌ Conjunction when Planets are in the same Sign, Deg. Min. &c.
 * Sextile when 2 Signs dist. | Δ Trine when 4 Signs dist.
 □ Quartile when 3 Signs dist. | ♂ Opposition when 6 Signs dist.

Of the Four Quarters of the YEAR 1795.

	d	h	m
THE Spring Quarter begins	March 20	2	53 aftern
The Summer Quarter begins	June 21	0	45 aftern
The Autumnal Quarter begins	Sept. 23	2	32 morn
The Winter Quarter begins	Dec. 21	7	15 aftern

THE beautiful Planet VENUS will be a Morning Star till October the 18th; and after that Time she will be an Evening Star to the Year's End.

JUPITER will be an Evening Star till January the 5th; then a Morning Star till the 26th Day of July, at which Time he becomes an Evening Star, and so continues to the Year's End.

The NAMES of the Learned JUDGES of the LAW.

I. Right Hon. Alexander Wedderburne Lord Loughborough, Lord High Chancellor of Great Britain.

Right Honourable Sir Richard Pepper Arden, Knt. Master of the Rolls.

II. In the } Right Hon. Lord Kenyon, L. C. J. Sir W. H. Ashurst, Knt.
K. Bench. } Sir Soulden Lawrence, Knt. Sir Nash Grose, Knt.

III. In the } Sir James Eyre, Knt. L. C. J. Sir Giles Rooke, Knt.
C. Pleas. } John Heath, Esq. Sir Francis Buller, Bart.

IV. In the } Sir Arch. Macdonald, Kt. L. C. B. Sir Beaumont Hotham, Kt.
Exchequer } Sir Richard Perryn, Knt. Sir Alex. Thompson, Knt.

Sir John Scott, Knt. Attor. General; Sir John Mitford, Knt. Solic. Gen.

A TABLE of TERMS and Returns for the Year 1795.

Hilary Term begins Jan. 23, ends Feb. 12.

Returns or Effoign-days,		Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary,	- - Jan. 20	21	22	23	Friday
In fifteen Days of St. Hilary	- - - 27	28	29	30	Friday
On the Mor. of the Purif. of the Bl. V. M.	Feb. 3	4	5	6	Friday
In eight Days of the Purif. of the Bl. V. M.	9	10	11	12	Thurs.

Easter Term begins April 22, ends May 18.

In fifteen Days of Easter	- - April 19	20	21	22	Wedn.
From Easter Day in three Weeks	- - - 26	27	28	29	Wedn.
From Easter Day in one Month	- - May 3	4	5	6	Wedn.
From Easter Day in five Weeks	- - - 10	11	12	13	Wedn.
On the Mor. of the Ascension of the Lord	15	16	17	18	Monday

Trinity Term begins June 5, ends June 24.

In the Morrow of the Holy Trinity,	- June 1	2	3	5	Friday.
In eight Days of the Holy Trinity,	- - 7	8	9	10	Wedn.
In fifteen Days of the Holy Trinity,	- - 14	15	16	17	Wedn.
From the Day of the Holy Trin. in 3 Weeks	21	22	23	24	Wedn.

Michaelmas Term begins Nov. 6, ends Nov. 28.

In the Morrow of All Souls	- - - Nov. 3	4	5	6	Friday.
In the Morrow of St. Martin	- - - 12	13	14	16	Mond.
In eight Days of St. Martin	- - - 18	19	20	21	Saturd.
In fifteen Days of St. Martin	- - - 25	26	27	28	Saturd.

N. B. No Sittings in Westminster-Hall on the Second of February, Ascension-day, and Midsummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term, are the first and last Days of Appearance.

BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III. June 4, 1738	Prince Aug. Fred. Jan. 27, 1773
Prince of Wales, Aug. 12, 1762	Prince Adolph. Fred. Feb. 24, 1774
Duke of York, August 16, 1763	Princess Mary, April 25, - 1776
Duke of Clarence, Aug. 21, 1765	Princess Sophia, Nov. 3, - 1777
Princess Royal, Septem. 29, 1766	Princess Amelia, Aug. 7, - 1783
Prince Edward, Nov. 2, - 1767	Queen Charlotte, May 19, 1744
Prs. Augusta Sophia, Nov. 8, 1768	Prs. Augusta of Brun. Aug. 11, 1737
Prs. Elizabeth, May 22, - 1770	Duke of Gloucester, Nov. 25, 1743
Prince Ernest Augustus, June 5, 1771	

SOVEREIGNS OF EUROPE, their Accession, &c.

Kingdoms, &c.	To whom subject.	When born.	Began to reign.
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
France			
Russia	Catharine II.	May 2, 1729	July 9, 1762
Spain	Charles IV.	Nov. 11, 1748	Dec. 1, 1788
Portugal	Mary	Dec. 7, 1734	Feb. 24, 1777
Prussia	Frederic IV.	Sept. 25, 1744	Aug. 17, 1785
Denmark & Norway	Christian VII.	Jan. 29, 1749	Jan. 14, 1766
Sweden	Gustavus IV.	Nov. 1, 1778	Mar. 29, 1792
Germany	Francis II.	Feb. 12, 1767	Mar. 1, 1792
Poland	Stanislaus III.	Jan. 17, 1732	Nov. 25, 1763
Holland	William V.	March 8, 1748	Oct. 11, 1751
Papedom	Pius VI.	Dec. 27, 1717	Feb. 18, 1775
Sardinia	Victor	June 26, 1726	Mar. 20, 1773
Ottoman Empire	Selim III.	July 17, 1761	April 7, 1789

The FULL WEIGHT of the Coins, with the LEAST WEIGHT allowed to pass of the Gold Coin.

Wt. allowed.		Full Wt.		SILVER.		Full Wt.	
GOLD.	dwt. gr.	dwt. gr.				dwt. gr.	
Guinea, - -	5 8	5 9 $\frac{3}{8}$		A Crown, - -		19 8 $\frac{1}{2}$	
Half Guinea, -	2 16	2 16 $\frac{6}{8}$		Half Crown, -		9 16 $\frac{3}{4}$	
Quarter Guinea, 1	8	1 8 $\frac{3}{8}$		Shilling, - -		3 20 $\frac{1}{2}$	
				Six Pence, - -		1 22 $\frac{1}{2}$	

According to the above proportions it appears, that the value of a lb. of silver is 62 s. or 3 l. 2 s. and of a lb. of gold is 44 $\frac{1}{2}$ guineas, or 46 l. 14 s. 6 d. Also that the oz. of silver is 5 s. 2 d. and the oz. of gold 3 l. 17 s. 10 d. So that the value of the standard gold is 15 times that of the silver and 1-14th more.

A TABLE of the **KINGS** and **QUEENS** of **ENGLAND**
since the **CONQUEST**.

Kings and Queens	Born A.D.	Began their Reign	Reigned Y. M. D.	Age	Rem. Deaths and Dethroned	Where buried
Will. Conq.	1027	1066 Oct. 14	20 10 26	60	Burst by Leap.	Caen, Norm
Will. Rufus	1057	1087 Sept. 9	12 10 24	43	Slain accidentally.	Winchester
Henry I.	1068	1100 Aug. 2	35 3 29	77		Reading
Stephen	1105	1135 Dec. 1	18 10 24	49		Feverham
Henry II.	1133	1154 Oct. 25	34 8 11	55		Fonteveraud
Richard I.	1156	1189 July 6	9 9 0	43	Slain with an Arrow.	Fonteveraud
John	1165	1199 April 6	17 6 13	50		Worcester
Henry III.	1207	1216 Oct. 19	56 0 28	65		Westminster
Edward I.	1239	1272 Nov. 16	34 7 21	67		Westminster
Edward II.	1284	1307 July 7	19 6 18	43		Gloucester
Edward III.	1312	1327 Jan. 25	50 4 27	65		Westminster
Richard II.	1366	1377 June 21	22 3 8	33	Dep. & murd.	Westminster
Henry IV.	1367	1399 Sept. 29	13 5 20	46		Canterbury
Henry V.	1389	1413 Mar. 20	9 5 11	33		Westminster
Henry VI.	1421	1422 Aug. 31	38 6 4	49	Dep. & murd.	Windfor
Edward IV.	1442	1461 Mar. 4	22 1 5	41		Windfor
Edward V.	1471	1483 April 9	0 2 15	12	Murder'd.	Not known
Richard III.	1443	1483 June 22	2 2 0	42	Slain in Battle.	Leicester
Henry VII.	1456	1485 Aug. 22	23 8 0	52		Westminster
Henry VIII.	1492	1509 April 22	37 9 6	55		Windfor
Edward VI.	1537	1547 Jan. 28	6 5 8	15		Westminster
Mary I.	1516	1553 July 6	5 4 11	42		Westminster
Elizabeth	1533	1558 Nov. 17	44 4 7	69		Westminster
James I.	1566	1603 Mar. 24	22 0 3	58		Westminster
Charles I.	1600	1625 Mar. 27	23 10 3	48		Windfor
Charles II.	1630	1649 Jan. 30	36 0 7	54		Westminster
James II.	1633	1685 Feb. 6	4 0 7	67	Abdicated.	St. Germain
Mary II.	1662	1689 Feb. 13	5 10 15	32		Westminster
William III.	1650	1689 Feb. 13	13 0 23	52		Westminster
Anne	1665	1702 Mar. 8	12 4 24	49		Westminster
George I.	1660	1714 Aug. 1	12 10 10	67		Hanover
George II.	1683	1727 June 11	33 4 14	77		Westminster
George III.	1738	1760 Oct. 25	Crowned Sept. 22, 1761.			

Above you view the Rise and Fall of Kings,
Whose Fate sometimes a useful Lesson brings,
Well if all Men could profit from the past!
Each know his Duty, each excel the last,
And justly execute his stated Task.

A TABLE of the most Reverend, Right Reverend, and Reverend, the ARCHBISHOPS, BISHOPS and DEANS, exercising Ecclesiastical Jurisdiction, 1795.

BISHOPS.	Sees.	Date.	Succeeded.	DEANS.
Dr. John Moore	<i>Bangor</i>	1775	Ewer deceased	
Arch-Bishop	<i>Canterb. A. B.</i>	1783	Cornwallis dec.	Bishop Buller
Dr. Will. Markham	<i>Chester</i>	1771	Keene transl.	
Arch-Bishop	<i>York A. B.</i>	1777	Drummond de.	Dr. J. Fountayne
	<i>Chester</i>	1776	Markham tran.	
Dr. Beilby Porteus	<i>London</i>	1787	Lowth deceas.	Bishop Pretyman
	<i>Landaff</i>	1769	Shipley transl.	
Ho. Dr. S. Barrington	<i>Salisbury</i>	1782	Hume dec.	
	<i>Durham</i>	1791	Thurlow dec.	Bishop Cornwallis
	<i>Litch & Cov.</i>	1771	Egerton transl.	
Hon. Dr. B. North	<i>Worcester</i>	1774	Johnson deceas.	Dr. Newton Ogle
	<i>Winchester</i>	1781	Thomas deceas.	Mr. Combe Miller
Sir W. Ashburnham	<i>Chichester</i>	1754	Mawson transl.	
Dr. Charles Moss	<i>St. David's</i>	1766	Lowth transl.	
	<i>Bath & Wells</i>	1774	Willes decease	Ld. Fr. Seymour
	<i>St. David's</i>	1774	Moss transl.	
H. Dr. James Yorke	<i>Gloucester</i>	1779	Warburton dec.	
	<i>Ely</i>	1781	Keene deceased	Dr. W. Cooke
	<i>Litch. & Cov.</i>	1775	B. North tr.	
Dr. Richard Hurd	<i>Worcester</i>	1781	B. North tr.	Ho. St. A. St. John
	<i>Oxford</i>	1777	Lowth transl.	
Dr. John Butler	<i>Hereford</i>	1788	Harley deceas.	Dr. N. Wetherell
	<i>St. David's</i>	1779	Yorke transl.	
Dr. John Warren	<i>Bangor</i>	1783	Moore transl.	Dr. Tho. Lloyd
Dr. J. Cornwallis	<i>Litch. & Cov.</i>	1781	Huid transl.	Dr. Bapt. Proby
	<i>Bristol</i>	1782	Newton dec.	
Dr. Lewis Bagot	<i>Norwich</i>	1783	Yonge dec.	
	<i>St. Asaph</i>	1790	Hallifax dec.	Mr. W. D. Shipley
Dr. Richard Watson	<i>Landaff</i>	1782	Barrington tr.	Dr. R. Price, P.
	<i>St. David's</i>	1783	Warren transl.	
Dr. Edward Smalwell	<i>Oxford</i>	1788	Butler transl.	Dr. Cyril Jackson
Dr. G. Pretyman	<i>Lincoln</i>	1787	Thurlow tran.	Sir Ri. Kaye, B.
	<i>Carlisle</i>	1787	Law dec.	
Dr. John Douglas	<i>Salisbury</i>	1791	Barrington tra.	Dr. John Ekins
Dr. William Cleaver	<i>Chester</i>	1788	Porteus tran.	Dr. G. Cotton
	<i>St. David's</i>	1788	Smalwell tr.	
Dr. Samuel Horsley	<i>Rocheſter</i>	1793	Thomas dec.	Dr. T. Dampier
	<i>Gloucester</i>	1789	Hallifax tran.	Dr. Josiah Tucker
Dr. Richard Beadon	<i>Gloucester</i>	1789	Hallifax tran.	
Dr. E. V. Vernon	<i>Carlisle</i>	1791	Douglas transl.	Dr. Isaac Milner
Dr. Charles Sutton	<i>Norwich</i>	1792	Horne decea.	Dr. John Hallam
Dr. Wm. Buller	<i>Exeter</i>	1792	Rofs dec.	Dr. C. Harward
Dr. Stuart	<i>St. David's</i>	1793	Horsley transl.	Mr. Wollaston, P.
	<i>Bristol</i>	1792	Bagot transl.	
Dr. Spencer Madan	<i>Peterborough</i>	1794	Hinchliffe dec.	Dr. Peter Peckard
Dr. Regin. Courtney	<i>Bristol</i>	1794	Madan transf.	Dr. Joseph Turner
	<i>Westminster</i>	1793	Thomas dec.	Bishop Horsley
	<i>Windſor</i>	1788		Bishop Cornwallis

IN the course of this year there will happen four eclipses, two of the sun, and two of the moon; the two latter of which only are visible in these parts.

I. *January 20*, Sol is eclipsed, about 9m. after midnight, and consequently invisible to all Europe. But in the northern parts of the great South Sea this will be a great eclipse, as at the Sandwich, Philippine, Ladrone, and Japan isles; and along the track of central appearance the eclipse will be annular.

II. *February 3*, the Moon is eclipsed, and visible here in Europe, as well as in all Africa, the greatest parts of America, and the western parts of Asia. The circumstances are as follow:

Beginning of the eclipse 10h 59m

Middle - - - 12 25

Ecliptic opposition - 12 32

End of the eclipse - 13 51

Digits eclipsed $7^{\circ} 27'$ on the Moon's south limb.

III. *July 16*, the Sun is centrally and totally eclipsed, to the inhabitants of the great South Sea, but it will not be any eclipse to the Europeans. The middle will be about our half an hour after seven in the morning.

IV. *July 31*, the Moon is partially eclipsed near three quarters after 7 in the evening, when the Moon rises here. This eclipse may be seen through most parts of the South Sea, as at the Borneo, Sunda, Sumatra, and Philippine isles; Africa, the East Indies, with most parts of Europe and Asia. The circumstances for Greenwich are as follow:

Beginning, July 31, 6h 46m

Middle - - - 7 42

Moon rises - - - 7 43

Ecliptic opposition - 7 53

End of eclipse - 8 38

Digits eclipsed $20^{\circ} 52'$ on the Moon's north limb.

September 23, the Moon eclipses the planet Jupiter. The immersion is at 6h 4m afternoon, and the emerision at 6h 36m.

Obliquity of the Ecliptic.

1795.

Equation of Equinoctial Points.

23° 27' 50".5	-	January	1,	-	13".8
23 27 51.0	-	April	1,	-	14. 7
23 27 51.6	-	July	1,	-	15. 6
23 27 52.2	-	October	1,	-	16. 2
23 27 52.9	-	Decemb. 31,	-	-	16. 8

The LUNATIONS.

Full Moon the 5th day, at 33 minutes past 9 morning.

Last quarter the 13th day, at 51 minutes past 4 morning.

New Moon the 20th day, at 9 minutes past 12 night.

First quarter the 27th day, at 3 minutes past 9 night.

M	Sundays & other D remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ fouth	Clock bef. ☉	
1	Circumcision	8 5	3 55	23 s 0	12 n 52	3 m 6	8 a 47	4' 8"	
2		8 4	3 56	22 54	16 26	4 23	9 42	4 37	
3		8 3	3 57	22 49	18 59	5 35	10 39	5 4	
4	S. Sun. & Christ.	8 3	3 57	22 42	20 22	6 45	11 36	5 31	
5	Old Chri. Day	8 2	3 58	22 36	20 29	☽ rises	morn	5 58	
6	Epiphany	Tw. day	3 59	22 28	19 25	5 a 31	0 33	6 25	
7		8 0	4 0	22 21	17 18	6 36	1 27	6 51	
8	Lucian	7 59	4 1	22 13	14 21	7 42	2 17	7 16	
9		7 58	4 2	22 4	10 50	8 48	3 4	7 41	
10		7 57	4 3	21 55	6 55	9 55	3 49	8 5	
11	S. aft. Epiph.	7 56	4 4	21 46	2 48	11 0	4 32	8 29	
12	Plow Monday	7 55	4 5	21 36	1 s 22	morn.	5 14	8 54	
13	Hila. Cam. T. b.	7 54	4 6	21 26	5 28	0 4	5 55	9 15	
14	Oxf. Term beg.	7 53	4 7	21 16	9 22	1 7	6 37	9 37	
15		7 52	4 8	21 5	12 56	2 12	7 20	9 58	
16		7 51	4 9	20 53	16 0	3 16	8 5	10 18	
17	Old Twe. Day	7 49	4 11	20 41	18 25	4 21	8 53	10 38	
18	S. af. Epip. Q.	Prifea	4 12	20 29	20 0	5 24	9 44	10 58	
19	[Char. b. d. k.]	7 47	4 13	20 17	20 35	6 23	10 37	11 16	
20	Fabian	7 45	4 15	20 4	20 1	☽ sets	11 31	11 34	
21	Agnes	7 44	4 16	19 50	18 17	4 a 57	0 a 26	11 51	
22	Vincent	7 42	4 18	19 37	15 27	6 13	1 21	12 7	
23	Hil. Term beg.	7 41	4 19	19 23	11 41	7 32	2 15	12 23	
24		7 40	4 20	19 8	7 14	8 50	3 7	12 37	
25	S. S. Epip. Con.	7 38	4 22	18 53	2 22	10 8	3 58	12 51	
26	[of St. Paul]	7 37	4 23	18 38	2 n 38	11 26	4 49	13 4	
27	Pr. Au. Fred. b.	7 35	4 25	18 23	7 28	morn.	5 41	13 16	
28		7 33	4 27	18 7	11 52	0 44	6 33	13 27	
29		7 32	4 28	17 51	15 34	2 1	7 27	13 38	
30	K. Cha. I. mar.	7 30	4 30	17 34	18 21	3 15	8 22	13 47	
31		7 28	4 32	17 18	20 3	4 24	9 18	13 56	
☽	Day increaf.	Length of Day.	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ♂	h sets.
1	0 7	7 51	27 8 46	15 3	19 0	11 26 10	10 28 44	6 m 15	4 m 11
7	0 17	8 1	28 0 15	33 4	43 17	17 20 28	23 49 3	45	
13	0 29	8 13	28 13 16	4 8	25 23	23 10 13	10 12 8	3 19	
19	0 43	8 27	28 26 16	34 12	59 29	9 58 27	0 2 53		
25	1 1	8 45	28 39 17	4 15	44 50	36 19 43	14 5 11	2 26	

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January.

9

Day	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	5 59	6 1	2 10	98 55	2 s 12	0 7	1 s 2	4 n 2	0 n 25
7	5 56	6 4	2 9	9 35	2 10	0 7	0 57	5 16	0 s 20
13	5 52	6 8	2 7	9 16	2 9	0 8	0 51	6 5	1 0
19	5 46	6 14	2 5	8 57	2 7	0 9	0 47	6 28	1 32
25	5 39	6 21	2 3	8 38	2 5	0 9	0 42	6 29	1 54
Day	☉'s longitude	☽'s long.	☽'s latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.	
1	11 9 37	20 8 8	5 s 7	23 8 9	14 5 26	29 20	12 19	22 17	
2	12 10 47	4 11 28	4 42	23 7	14 40	0 6	11 43	23 41	
3	13 11 57	18 41	4 0	23 5	14 54	0 52	11 6	23 56	
D	14 13 6	2 44	3 4	23 3	15 8	1 39	10 30	26 32	
5	15 14 15	16 32	1 58	23 1	15 22	2 25	9 54	27 59	
6	16 15 24	0 1	0 46	22 59	15 36	3 11	9 19	29 27	
7	17 16 32	13 11	0 n 26	22 57	15 50	3 5	8 44	0 55	
8	18 17 41	26 0	1 3	22 55	16 4	4 44	8 11	2 23	
9	19 18 50	8 23	2 38	22 54	16 18	5 30	7 40	3 52	
10	20 19 58	20 47	3 33	22 52	16 32	6 17	7 11	5 22	
D	21 21 6	2 50	4 17	22 51	16 46	7 3	6 44	6 52	
12	22 22 14	14 45	4 49	22 49	17 0	7 49	6 19	8 23	
13	23 23 21	26 37	5 9	22 48	17 14	8 36	5 55	9 55	
14	24 24 29	8 31	5 16	22 47	17 28	9 22	5 34	11 27	
15	25 25 36	20 32	5 9	22 46	17 42	10 8	5 16	12 50	
16	26 26 43	2 43	4 49	22 45	17 56	10 55	5 1	14 32	
17	27 27 50	15 8	4 14	22 44	18 10	11 41	4 49	16 6	
D	28 28 56	27 51	3 26	22 43	18 24	12 27	4 37	17 40	
19	29 30 2	10 51	2 27	22 43	18 37	13 13	4 27	19 15	
20	0 31 7	24 11	1 18	22 42	18 51	13 59	4 20	20 50	
21	1 32 11	7 47	0 4	22 42	19 5	14 45	4 16	22 36	
22	2 33 14	21 39	1 s 13	22 41	19 19	15 32	4 15	24 3	
23	3 34 17	5 42	2 26	22 41	19 33	16 18	4 17	25 40	
24	4 35 18	19 54	3 30	22 42	19 47	17 4	4 21	27 18	
D	5 36 17	4 10	4 22	22 43	20 0	17 50	4 26	28 56	
26	6 37 16	18 26	4 58	22 43	20 14	18 36	4 34	0 35	
27	7 38 13	2 40	5 16	22 44	20 28	19 22	4 44	2 15	
28	8 39 9	16 50	5 14	22 44	20 41	20 8	4 57	3 58	
29	9 40 3	0 53	4 53	22 45	20 55	20 53	5 12	5 36	
30	10 40 56	14 47	4 16	22 45	21 9	21 39	5 29	7 18	
31	11 41 48	28 31	3 24	22 46	21 23	22 25	5 48	9 1	
Day	u's rises	δ's sets	♀'s rises	♂'s rises	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	8 m 17	8 a 16	7 m 42	6 m 43	16 n 27	22 s 48	12 s 41	18 s 53	22 s 40
7	7 56	8 17	6 56	7 1	16 26	22 39	10 56	17 56	23 48
13	7 35	8 18	6 13	7 18	16 25	22 29	9 10	17 15	24 5
19	7 14	8 19	5 45	7 29	16 25	22 19	7 20	16 56	23 36
25	6 54	8 20	5 13	7 36	16 27	22 8	5 28	16 54	22 15

10 February hath xxviii Days. White.

The LUNATIONS.

Full Moon the 4th day, at 28 minutes bef. 1 morning.
 Last quarter the 12th day, at 8 minutes past 2 morning.
 New Moon the 19th day, at 5 minutes past 1 afternoon.
 First quarter the 26th day, at 3 minutes past 5 morning.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☾'s declin.	☾rises & sets	☾ south	Clock bef. ☉
1	Septuagesim. Sun.	7 27	4 33	17 s 1	20 n 34	5 m 26	10 a 14	14 4
2	Purif. or Candle	7 25	4 35	16 43	19 54	6 20	11 7	14 11
3	Blaise	7 23	4 37	16 26	18 10	7 2	morn	14 17
4		7 22	4 38	16 8	15 31	☾rises	0 0	14 23
5	Agatha	7 20	4 40	15 50	12 10	6 a 25	0 49	14 27
6		7 18	4 42	15 31	8 21	7 35	1 35	14 31
7		7 16	4 44	15 13	4 16	8 40	2 20	14 34
8	Sexagesim. Sun.	7 14	4 46	14 54	0 4	9 45	3 3	14 36
9		7 13	4 47	14 34	4 s 6	10 48	3 45	14 38
10		7 11	4 49	14 15	8 5	11 53	4 26	14 38
11		7 9	4 51	13 55	11 45	morn	5 9	14 38
12	Term ends	7 7	4 53	13 35	14 59	0 56	5 53	14 38
13	Old Canol. day	7 5	4 55	13 15	17 38	2 1	6 40	14 36
14	Valentine	7 3	4 57	12 55	19 31	3 4	7 29	14 34
15	Quinq. Shro. S.	7 1	4 59	12 34	20 26	4 4	8 20	14 31
16		7 0	5 0	12 13	20 24	4 59	9 14	14 27
17	Shrove Tuesday	6 58	5 2	11 52	19 8	5 48	10 9	14 22
18	Ash Wednesday	6 56	5 4	11 31	16 42	6 29	11 5	14 17
19	[Cem. T. d]	6 54	5 6	11 10	13 13	☾sets	0 a 1	14 11
20		6 5	5 8	10 48	8 52	6 a 29	0 55	14 5
21		6 50	5 10	10 27	3 56	7 48	1 49	13 58
22	1 Sun. in Lent	6 48	5 12	10 5	1 n 13	9 7	2 42	13 50
23	[A.F.b]	6 46	5 14	9 43	6 17	10 30	3 36	13 44
24	St. Matthias. Pr.	6 44	5 16	9 21	10 55	11 50	4 29	13 32
25	Ember Week	6 42	5 18	8 58	14 51	morn	5 23	13 21
26		6 40	5 20	8 36	17 53	1 6	6 17	13 12
27		6 38	5 22	8 14	19 50	2 17	7 14	13 2
28		6 36	5 24	7 51	20 36	3 22	8 10	12 50

1795.

February.

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Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's node	h's latitude	u's latitude	♂'s latitude	♀'s latitude	♂'s latitude
1	5 31	6 30	2 0	8 R 16	2 s 3	0 s 10	0 s 37	6 n 12	2 s 5
7	5 22	6 39	1 59	7 57	2 1	0 11	0 32	5 46	1 57
13	5 12	6 48	1 57	7 38	2 0	0 11	0 27	5 14	1 31
19	5 0	7 0	1 57	7 19	1 58	0 12	0 23	4 38	0 43
25	4 50	7 10	1 56	7 0	1 56	0 13	0 18	4 0	0 n 28
Days	☉'s longitude	D's long.	D's latitude	h's long.	u's long.	♂'s long.	♀'s long.	♂'s long.	
1	12 42 38	12 20 4	2 s 21	22 8 47	21 13 6	23 10	6 5 8	10 24 4	
2	13 43 26	25 24	1 12	22 48	21 50	23 56	6 30	12 28	
3	14 44 13	8 R 31	0 n 0	22 49	22 4	24 42	6 54	14 13	
4	15 44 59	21 23	1 11	22 51	22 17	25 28	7 20	15 58	
5	16 45 44	4 m 2	2 17	22 52	22 31	26 14	7 48	17 44	
6	17 46 27	16 26	3 15	22 53	22 45	27 0	8 18	19 31	
7	18 47 10	28 39	4 3	22 55	22 58	27 45	8 49	21 19	
D	19 47 50	10 42	4 40	22 57	23 12	28 31	9 21	23 7	
9	20 48 30	22 37	5 4	22 59	23 25	29 16	9 55	24 56	
10	21 49 9	4 m 30	5 15	23 1	23 38	0 v 2	10 31	26 46	
11	22 49 47	16 23	5 13	23 3	23 51	0 47	11 8	28 36	
12	23 50 23	28 22	4 57	23 5	24 4	1 33	11 46	0 x 26	
13	24 50 59	10 31	4 28	23 7	24 17	2 18	12 24	2 17	
14	25 51 33	22 55	3 46	23 10	24 30	3 3	13 4	4 8	
D	26 52 6	5 38	2 51	23 12	24 43	3 40	13 46	5 59	
16	27 52 37	18 43	1 47	23 14	24 55	4 34	14 29	7 50	
17	28 53 7	2 m 11	0 34	23 16	25 8	5 20	15 13	9 41	
18	29 53 36	16 4	0 s 42	23 19	25 21	6 5	15 58	11 51	
19	30 54 3	0 x 18	1 58	23 22	25 33	6 50	16 43	13 19	
20	1 54 28	14 49	3 7	23 25	25 46	7 35	17 30	15 6	
21	2 54 51	29 30	4 5	23 28	25 58	8 20	18 18	16 52	
D	3 55 13	14 v 15	4 47	23 31	26 11	9 5	19 6	18 36	
23	4 55 32	28 55	5 9	23 35	26 23	9 50	19 55	20 17	
24	5 55 50	13 25	5 12	23 38	26 36	10 35	20 44	21 55	
25	6 56 5	27 41	4 55	23 42	26 48	11 20	21 34	23 29	
26	7 56 18	11 140	4 21	23 45	27 1	12 5	22 25	24 59	
27	8 56 29	25 22	3 33	23 49	27 13	12 50	23 17	26 24	
28	9 56 38	8 48	2 34	23 53	27 26	13 35	24 10	27 44	
Days	u's rises	♂'s sets	♀'s rises	♂'s sets	h's declin.	u's declin.	♂'s declin.	♀'s declin.	♂'s declin.
1	6 m 30	8 a 22	4 m 52	4 a 15	16 n 30	21 s 54	3 s 17	17 s 8	19 s 34
7	6 10	8 24	4 41	4 51	16 34	21 41	1 23	17 26	16 15
13	5 51	8 27	4 35	5 32	16 39	21 29	0 n 30	17 41	12 6
19	5 32	8 29	4 30	6 15	16 44	21 15	2 22	17 50	7 13
25	5 13	8 32	4 27	6 54	16 50	21 2	4 13	17 48	2 9

The LUNATIONS.

Full Moon the 5th day, at 6 minutes past 5 afternoon.

Last quarter the 13th day, at 19 minutes past 9 evening

New Moon the 20th day, at 42 minutes past 11 night.

First quarter the 27th day, at 22 minutes past 2 afternoon.

M	Sundays & other	☉	☉	☉'s	☉'s	Drises	☾	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	bef. ☉
1	2 Sund. in Lent	David	5 26	7 s 28	20 n 15	4 m 18	9 a 3	12 38
2	Chad	6 32	5 28	7 5	18 46	5 3	9 55	12 26
3		6 30	5 30	6 42	16 23	5 40	10 45	12 13
4		6 29	5 31	6 19	13 15	6 10	11 32	11 59
5		6 27	5 33	5 56	9 34	Drises	morn	11 45
6		6 25	5 35	5 33	5 32	6 a 31	0 18	11 31
7	Perpetua	6 23	5 37	5 10	1 20	7 33	1 2	11 16
8	3 Sund. in Lent	6 21	5 39	4 46	2 s 53	8 40	1 44	11 1
9		6 19	5 41	4 23	6 58	9 44	2 26	10 46
10		6 17	5 43	3 59	10 45	10 48	3 9	10 30
11		6 15	5 45	3 36	14 8	11 52	3 53	10 14
12	Gregory	6 13	5 47	3 12	16 58	morn	4 38	9 57
13		6 11	5 49	2 49	19 6	0 55	5 25	9 40
14		6 9	5 51	2 25	20 24	1 56	6 14	9 23
15	4 or Midl. Sund	6 7	5 53	2 1	20 42	2 53	7 6	9 6
16		6 5	5 55	1 38	19 55	3 44	8 0	8 49
17	St. Patrick	6 3	5 57	1 14	17 59	4 29	8 55	8 31
18	Edw. K. W. S.	6 1	5 59	0 50	14 57	5 4	9 50	8 13
19		5 59	6 1	0 27	10 55	5 38	10 45	7 56
20		5 57	6 3	0 3	6 7	Drises	11 40	7 37
21	Benedict	5 55	6 5	0 n 21	0 53	6 a 51	0 a 35	7 19
22	5 Sund. in Lent	5 53	6 7	0 45	4 n 27	8 14	1 30	7 1
23		5 51	6 9	1 8	9 28	9 38	2 26	6 43
24		5 49	6 11	1 32	13 52	10 59	3 22	6 24
25	Ann. or Lady D.	5 47	6 13	1 55	17 19	morn	4 19	6 6
26		5 45	6 15	2 19	19 38	0 15	5 16	5 47
27	Cam. T. ends	5 43	6 17	2 42	20 43	1 24	6 12	5 28
28	Oxf. T. ends	5 41	6 19	3 6	20 36	2 23	7 7	5 10
29	6 or Palm Sun	5 39	6 21	3 29	19 21	3 11	8 0	4 51
30		5 37	6 23	3 52	17 9	3 50	8 51	4 32
31		5 34	6 25	4 16	14 11	4 24	9 39	4 14
Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	h
increat.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	long. ♂	sets.
1 3 7	10 51	29 8 57	20 15 3	6 8 24	10 17 57	16 30	24 11 36	0 m 19
7 3 31	11 15	0 11 10	20 33	9 5	16 57	26 9	1 0	11 a 57
13 3 55	11 39	0 24	21 4	13 14	22 56	5 48	2 17 32	11 36
19 4 19	12 3	0 37	21 34	16 36	28 51	13 24	2 8 35	11 15
25 4 43	12 27	0 50	22 5	19 55	4 50	15 58	20 23	10 54

1795.

March.

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Day	lig. begins	Day	lig. ends	Durat. twilig.	Pl. D's node	H's latitude	U's latitude	S's latitude	Q's latitude	Q's latitude
1	4 43	7 17	1 55	6 47	1 s 55	0 s 13	0 s 15	3 n 34	1 n 24	
7	4 30	7 30	1 56	6 28	1 54	0 14	0 10	2 55	2 44	
13	4 17	7 43	1 57	6 9	1 52	0 15	0 6	2 17	3 31	
19	4 5	7 56	1 58	5 50	1 51	0 16	0 2	1 40	3 18	
25	3 50	8 10	2 0	5 31	1 50	0 17	0 n 2	1 5	2 7	
Day	O's longitude			D's long.	D's latitude	H's long.	U's long.	S's long.	Q's long.	Q's long.
D 1	10 56 46	2 10 58	1 s 28	23 8 57	27 13 38	14 19 19	25 13 3	28 15 57		
2	11 56 50	4 10 54	0 18	24 1 27	50 15 4	25 57	0 18	0 18		
3	12 56 52	17 37	0 n 51	24 5 28	2 15 49	26 51	1 8	1 8		
4	13 56 52	0 m 10	1 57	24 9 28	14 16 33	27 46	1 56	1 56		
5	14 56 50	12 33	2 56	24 13 28	26 17 18	28 42	2 37	2 37		
6	15 56 46	24 47	3 46	24 17 28	38 18 3	29 37	3 13	3 13		
7	16 56 40	6 52	4 25	24 22 28	49 18 47	0 m 33	3 43	3 43		
D 8	17 56 33	18 52	4 52	24 26 29	1 19 32	1 30	4 3	4 3		
9	18 56 24	0 m 46	5 7	24 31 29	12 20 16	2 28	4 R 13	4 R 13		
10	19 56 13	12 38	5 8	24 35 29	23 21 0	3 26	4 13	4 13		
11	20 56 1	24 30	4 55	24 40 29	34 21 45	4 25	4 5	4 5		
12	21 55 47	6 27	4 30	24 45 29	45 22 29	5 23	3 49	3 49		
13	22 55 31	18 33	3 53	24 50 29	56 23 13	6 22	3 26	3 26		
14	23 55 13	0 53	3 4	24 55 0	0 m 7	7 23	2 56	2 56		
D 15	24 54 54	13 31	2 5	25 0 0	18 24 41	8 23	2 19	2 19		
16	25 54 33	26 32	0 58	25 5 0	28 25 25	9 23	1 35	1 35		
17	26 54 11	9 m 59	0 s 14	25 10 0	39 26 5	10 24	0 48	0 48		
18	27 53 46	23 55	1 28	25 15 0	50 26 53	11 25	29 58	29 58		
19	28 53 20	8 17	2 38	25 21 1	0 27 37	12 26	29 5	29 5		
20	29 52 52	23 4	3 40	25 26 1	10 28 21	13 27	28 12	28 12		
21	0 52 21	8 6	4 28	25 32 1	20 29 4	14 29	27 19	27 19		
D 22	1 51 48	23 15	4 57	25 37 1	30 29 48	15 31	26 26	26 26		
23	2 51 14	8 20	5 5	25 43 1	40 0 8	16 34	25 39	25 39		
24	3 50 37	23 12	4 51	25 49 1	50 1 15	17 37	24 47	24 47		
25	4 49 58	7 14	4 22	25 55 2	0 1 59	18 40	24 3	24 3		
26	5 49 16	21 52	3 35	26 1 2	10 2 42	19 43	23 24	23 24		
27	6 48 32	5 35	2 38	26 7 2	20 3 26	20 47	22 50	22 50		
28	7 47 46	18 54	1 33	26 13 2	29 4 10	21 51	22 20	22 20		
D 29	8 46 57	1 54	0 25	26 19 2	39 4 53	22 55	21 56	21 56		
30	9 46 6	14 35	0 n 43	26 25 2	48 5 37	23 59	21 38	21 38		
31	10 45 12	27 3	1 47	26 31 2	58 6 20	25 4	21 26	21 26		
Day	U's rises	S's sets	Q's rises	Q's sets	H's declin.	U's declin.	S's declin.	Q's declin.	Q's declin.	
1	5 m 0	8 a 34	4 m 26	7 a 12	16 n 55	20 s 52	5 n 25	17 s 38	0 n 52	
7	4 42	8 37	4 23	7 21	17 3	20 39	7 12	17 12	3 59	
13	4 24	8 40	4 20	7 c	17 11	20 26	8 56	16 29	4 36	
19	4 6	8 44	4 17	rises	17 20	20 13	10 36	15 29	2 41	
25	3 48	8 48	4 15	5 m 16	17 29	20 0	12 13	14 12	0 s 25	

The LUNATIONS.

Full Moon the 4th day, at 10 minutes past 10 morning.

Last quarter the 12th day, at 4 minutes past 1 afternoon.

New Moon the 19th day, at 20 minutes past 8 morning.

First quarter the 26th day, at 29 minutes past 1 morning.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock bef. ☉	
1		5 33	6 27	4 n 39	10 n 37	4 m 51	10 a 23	3 55	
2	Maundy Thurs.	5 31	6 29	5 2	6 40	5 14	11 7	3 37	
3	Good Friday	Richard	6 31	5 25	2 20	5 36	11 50	3 19	
4	St. Ambrose	5 27	6 33	5 48	1 s 46	(rises	morn	3 1	
D	Easter Day	O.L.D.	6 35	6 10	5 56	7 a 41	0 32	2 43	
6	Easter Monday	5 23	6 37	6 33	9 52	8 47	1 14	2 25	
7	Easter Tuesday	5 21	6 39	6 50	13 25	9 52	1 57	2 8	
8		5 19	6 41	7 18	16 26	10 56	2 42	1 50	
9		5 17	6 43	7 40	18 47	11 58	3 29	1 33	
10		5 16	6 44	8 3	20 20	morn	4 17	1 17	
11		5 14	6 46	8 25	20 57	0 55	5 7	1 0	
D	1 or Low Sun.	5 12	6 48	8 47	20 33	1 46	5 58	0 44	
13		5 10	6 50	9 8	19 3	2 31	6 51	0 28	
14		5 8	6 52	9 30	16 29	3 10	7 44	0 13	
15	Ox. & Ca. T. beg.	5 6	6 54	9 51	12 54	3 43	8 37	0 a f. 2	
16		5 4	6 56	10 13	8 28	4 12	9 31	0 17	
17		5 2	6 58	10 34	3 23	4 40	10 25	0 31	
18		5 0	7 0	10 55	2 n 0	5 6	11 20	0 45	
D	2 Su. aft. Easter [Alphege]	4 58	7 2	11 16	7 20	(sets	0 a 16	0 59	
20		4 57	7 3	11 36	12 12	8 a 38	1 13	1 12	
21		4 55	7 5	11 57	16 15	10 3	2 12	1 25	
22	Term begins	4 53	7 7	12 17	19 9	11 17	3 11	1 37	
23	St. George	4 51	7 9	12 37	20 44	morn	4 10	1 49	
24	[M. b.]	4 49	7 11	12 57	21 0	0 22	5 7	2 0	
25	St. Mark. Pres.	4 47	7 13	13 16	20 2	1 17	6 2	2 14	
D	3 Su. aft. Easter	4 45	7 15	13 36	18 2	1 59	6 54	2 22	
27		4 44	7 16	13 55	15 11	2 34	7 43	2 32	
28		4 42	7 18	14 14	11 42	3 2	8 29	2 41	
29		4 40	7 20	14 32	7 48	3 27	9 13	2 50	
30		4 38	7 22	14 51	3 38	3 48	9 56	2 59	
Day	Day increas.	Length of day	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ♂	h sets
1	5 11	12 55	11 6	22 54	13 8	46 11	44 6	7 12	m 21
7	5 35	13 19	1 19	23 11	27 2	17 38	15 38	29 30	10 16
13	5 57	13 41	1 32	23 42	0 15	23 31	25 9	16 1	2 9
19	6 21	14 5	1 45	24 12	3 26	29 22	4 39	2 34	2 39
25	6 43	14 27	1 59	24 43	6 35	5 13	14 8	20 15	9 21

1795.

April.

15

Day	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's node	h's latitude	u's latitude	♂'s latitude	♀'s latitude	♂'s latitude
1	3 33	8 27	2 3	5Ω 9	1 s 48	0 s 18	0 n 7	0 n 27	0 n 18
7	3 17	8 43	2 8	4 50	1 47	0 18	0 11	0 s 3	1 s 3
13	3 2	8 58	2 11	4 30	1 46	0 19	0 15	0 29	2 2
19	2 47	9 13	2 15	4 11	1 45	0 20	0 19	0 52	2 37
25	2 26	9 34	2 25	3 52	1 45	0 22	0 22	1 12	2 50
Days	☉'s longitude	☽'s long.	☽'s latitude	h's long.	u's long.	♂'s long.	♀'s long.	♂'s long.	♀'s long.
1	11 44 16	9m 21	2 n 45	26 8 38	3 7	7 8	26 9 21	19	
2	12 43 19	21 30	3 35	26 44	3 16	7 47	27 14 21	D 19	
3	13 42 19	3 33	4 15	26 51	3 24	8 30	28 20 21	24	
4	14 41 17	15 31	4 43	26 57	3 33	9 14	29 25 21	31	
D	15 40 12	27 26	4 58	27 4	3 41	9 57	0 31 21	48	
6	16 39 6	9m 19	5 0	27 10	3 50	10 40	1 36 22	8	
7	17 37 58	21 11	4 50	27 17	3 58	11 23	2 42 22	30	
8	18 36 48	3 5	4 27	27 23	4 6	12 6	3 48 22	57	
9	19 35 35	15 3	3 52	27 30	4 14	12 49	4 55 23	39	
10	20 34 21	27 9	3 6	27 36	4 22	13 32	6 1 24	7	
11	21 33 6	9 26	2 10	27 43	4 30	14 15	7 8 24	40	
D	22 31 49	22 0	1 8	27 50	4 38	14 58	8 14 25	33	
13	23 30 31	4 55	0 s 0	27 57	4 45	15 49	9 21 26	20	
14	24 29 17	18 16	1 10	28 4	4 52	16 23	10 28 27	11	
15	25 27 50	2 5	2 19	28 11	4 59	17 6	11 35 28	6	
16	26 26 27	16 23	3 21	28 18	5 6	17 48	12 43 29	4	
17	27 25 2	1 8	4 11	28 25	5 13	18 31	13 50 0 5		
18	28 23 35	16 15	4 46	28 32	5 20	19 14	14 57 1	8	
D	29 22 7	1 8 34	5 0	28 39	5 26	19 56	16 5 2	13	
20	30 20 36	16 52	4 53	28 46	5 32	20 39	17 13 3	21	
21	1 19 4	2 11 0	4 26	28 53	5 38	21 21	18 21 4	32	
22	2 17 29	16 47	3 41	29 0	5 44	22 3	19 29 5	46	
23	3 15 52	1 58	2 43	29 7	5 50	22 46	20 37 7	9	
24	4 14 14	15 0	1 37	29 14	5 56	23 28	21 45 8	19	
25	5 12 33	28 24	0 28	29 22	6 2	24 10	22 53 9	39	
D	6 10 50	11 23	0 n 41	29 29	6 7	24 53	24 1 11	1	
27	7 9 5	24 2	1 45	29 37	6 13	25 35	25 10 12	25	
28	8 7 18	6m 23	2 43	29 44	6 18	26 17	26 18 13	51	
29	9 5 29	18 33	3 33	29 52	6 23	26 59	27 27 15	19	
30	10 3 38	0 35	4 13	29 59	6 28	27 41	28 35 16	59	
Days	u's rises	♂'s sets	♀'s rises	♂'s rises	h's declin.	u's declin.	♂'s declin.	♀'s declin.	♂'s declin.
1	3 m 22	8 a 52	4 m 11	4 m 56	17 n 40	19 s 46	14 n 0	12 s 24	3 s 9
7	3 2	8 55	4 5	4 45	17 50	19 35	15 26	10 34	3 57
13	2 42	8 58	3 58	4 35	18 0	19 25	16 47	8 31	3 19
19	2 22	9 1	3 50	4 23	18 10	19 16	18 2	6 18	1 30
25	2 2	9 3	3 40	4 19	18 20	19 8	19 11	3 56	1 n 13

The LUNATIONS.

Full Moon the 4th day, at 43 minutes past 2 morning.
 Last quarter the 12th day, at 12 minutes bef. 1 morning.
 New Moon the 18th day, at 48 minutes past 3 afternoon.
 First quarter the 25th day, at 33 minutes past 2 afternoon.

M	Sundays & other D remark. days	☉ rises	☉ sets	☉'s declin.	☾'s declin.	☾ rises & sets	☾ South	Clock aft. ☉	
1	Phil. & St. Jam.	4 37	7 23	15 n 9	0 s 38	4 m 9	10 a 38	3 7	
2		4 35	7 25	15 27	4 52	4 29	11 19	3 14	
3	4 Sun. af. East.	Inv. Cr.	7 27	15 45	8 55	4 48	morn	3 21	
4		4 31	7 29	16 2	12 37	(rises	0 1	3 27	
5		4 30	7 30	16 19	15 51	8 a 54	0 45	3 33	
6	John Ev. a. P. L.	4 28	7 32	16 36	18 26	9 56	1 31	3 38	
7		4 26	7 34	16 53	20 14	10 56	2 18	3 43	
8		4 25	7 35	17 9	21 7	11 50	3 8	3 47	
9		4 23	7 37	17 25	21 1	morn	3 59	3 51	
10	5 or Rogat. Su.	4 21	7 39	17 41	19 51	0 36	4 50	3 53	
11		4 20	7 40	17 57	17 38	1 16	5 42	3 56	
12	Old May day	4 18	7 42	18 12	14 26	1 50	6 33	3 57	
13		4 17	7 43	18 27	10 22	2 18	7 25	3 59	
14	Ascen. Holy Th.	4 15	7 45	18 41	5 37	2 45	8 17	3 59	
15		4 14	7 46	18 56	0 25	3 9	9 9	3 59	
16		4 12	7 48	19 10	4 n 56	3 34	10 2	3 58	
17	6 Sun. af. Ascen.	4 11	7 49	19 23	10 4	4 1	10 58	3 57	
18	Easter T. ends	4 9	7 51	19 36	14 35	(sets	11 56	3 55	
19	Queen Cha. bo.	Dunf.	7 52	19 49	18 8	8 a 53	0 a 55	3 53	
20		4 7	7 53	20 2	20 24	10 8	1 56	3 50	
21	Oxi. Ter. ends	4 5	7 55	20 14	21 15	11 10	2 56	3 46	
22	Prs. Elisab. born	4 4	7 56	20 26	20 45	11 59	3 54	3 42	
23		4 3	7 57	20 38	19 2	morn	4 48	3 38	
24	Whit Sunday	4 1	7 59	20 49	16 21	0 38	5 39	3 33	
25	Whit Monday	4 0	8 0	21 0	12 58	1 9	6 27	3 27	
26	Whit Tuesday	August.	8	121	10 9	5 1	34 7	12 3 21	
27	Ember Week	Vc. Be.	8	221	21 4	55 1	56 7	54 3 15	
28		3 57	8	321	30 0	37 2	15 8	36 3 8	
29	K. Cha. 2. rest.	3 56	8	421	40 3	40 2	3 9	17 3 1	
30		3 55	8	521	49 7	48 2	54 9	59 2 53	
31	Trinity Sunday	3 54	8	621	58 11	39 3	13 10	42 2 45	
Days	Day increas.	Length of day	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ♂	h sets
1	6 13	14 27	2 11	12 25	13 9	11 43	11 m 2	23 37	9 a 3
7	7 25	15 9	2 26	25 44	12 48	16 50	3 m 5	1 46	8 43
13	7 43	15 27	2 39	26 14	15 52	22 37	12 34	28 4	8 23
19	8 15	45	2 52	26 45	18 54	28 24	22 4	29 33	8 3
25	8 16	16 0	3 6	27 16	21 54	4 1	9 1	34 5	11 47

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May.

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Day	lig.	Day	lig.	Durat.	Pl. (C's	h's	u's	δ's	♀'s	♂'s	
D	begins	ends	twilig.	nooe	latitude	latitude	latitude	latitude	latitude	latitude	
1	2 6	9 57	2 37	3 Ω 33	1 4	0 23	0 n 25	1 8 28	2 8 42		
7	1 44	10 19	2 48	3 14	1 43	0 24	0 2	1 41	2 14		
13	1 11	10 45	3 5	2 55	1 43	0 25	0 32	1 50	1 28		
19	0 48	11 20	3 32	2 36	1 42	0 26	0 35	1 56	0 29		
25	All day light.			2 17	1 42	0 28	0 38	1 58	0 n 34		
☉'s		☾'s		☿'s		♂'s		♀'s		♂'s	
longitude		long.		latitude		longit.		longit.		long.	
1	8 11	1 44	12 23	4 n 41	0 11	7 33	28 8 23	29 8 44	18 9 21		
2	11 59	49	24 2	4 56	0 14	6 37	9 5	0 53	19 55		
D	12 57	53	6 m 16	4 59	0 22	6 41	29 47	2 22	21 31		
4	13 55	54	18 5	4 49	0 30	6 45	0 12 28	3 12	23 10		
5	14 53	54	0 4	4 26	0 37	6 49	1 10	4 21	24 51		
6	15 51	52	12 3	3 51	0 45	6 53	1 52	5 30	26 32		
7	16 49	49	24 7	3 6	0 53	6 56	2 33	6 40	28 16		
8	17 47	45	6 18	2 11	1 1	6 59	3 15	7 49	0 8 1		
9	18 45	40	18 4	1 10	1 8	7 2	3 56	8 59	1 49		
D	19 43	33	1 16	0 4	1 16	7 5	4 38	10 8	3 39		
11	20 41	25	14 10	1 5	1 24	7 8	5 19	11 18	5 31		
12	21 39	16	27 27	2 11	1 31	7 11	6 12	12 27	7 25		
13	22 37	6	11 8	3 12	1 39	7 14	6 42	13 37	9 20		
14	23 34	55	25 16	4 4	1 47	7 16	7 24	14 47	11 17		
15	24 32	43	9 50	4 41	1 54	7 18	8 5	15 57	13 16		
16	25 30	29	24 45	5 1	2 2	7 20	8 46	17 7	15 18		
D	26 28	15	9 8 56	5 0	2 9	7 22	9 27	18 17	17 21		
18	27 25	59	25 11	4 38	2 17	7 24	10 8	19 27	19 26		
19	28 23	42	10 19	3 56	2 25	7 25	10 49	20 37	21 32		
20	29 21	24	25 11	2 59	2 33	7 26	11 30	21 47	23 40		
21	Π 0	19 3	9 39	1 51	2 40	7 27	12 11	22 57	25 49		
22	1 16	42	23 39	0 39	2 48	7 28	12 52	24 7	27 59		
D	2 14	19	7 Ω 10	0 n 33	2 56	7 28	13 33	25 17	0 11 10		
23	3 11	55	20 15	1 41	3 4	7 29	14 14	26 28	2 21		
24	4 9	29	2 m 56	2 42	3 12	7 R 29	14 54	27 38	4 32		
26	5 7	2	15 19	3 34	3 19	7 29	15 35	28 49	6 43		
27	6 4	34	27 28	4 16	3 27	7 29	16 16	0 8	8 55		
28	7 2	4	9 27	4 45	3 35	7 28	16 57	1 10	11 7		
29	7 59	32	21 21	5 2	3 42	7 28	17 38	2 20	13 18		
30	8 57	0	3 m 13	5 5	3 50	7 27	18 19	3 31	15 28		
1	9 54	26	15 5	4 56	3 58	7 26	19 0	4 41	17 36		
u's		δ's		♀'s		♂'s		♀'s		♂'s	
rises		sets		rises		declin.		declin.		declin.	
1	1 m 41	9 a 5	3 m 31	4 m 13	18 n 31	19 s 2	20 n 14	1 s 27	4 n 43		
7	1 19	9 4	3 21	4 6	18 40	18 57	21 10	1 n 6	8 47		
13	0 56	9 3	3 10	4 0	18 50	18 54	21 59	3 41	13 13		
19	0 33	9 2	3 0	3 58	19 0	18 52	22 40	6 16	17 42		
25	0 10	0 0	2 48	3 57	19 0	18 52	23 14	8 49	21 38		

The LUNATIONS.

Full Moon the 2d day, at 1 minute past 6 afternoon.
 Last quarter the 10th day, at 50 minutes past 8 morning.
 New Moon the 16th day, at 8 minutes past 1 night.
 First quarter the 24th day, at 21 minutes past 5 morning.

M	Sundays & other D remark. days.	☉ rises	☉ sets	☉'s declin.	D's declin.	D rises & sets	D South	Clock aft.
1	Nicomede .	3 53	8 7	22 n 6	15 s 4	3 m 37	11 a 27	2
2		3 52	8 8	22 14	17 53	D rises	morn	2
3	Oxf. Term be.	3 51	8 9	22 21	19 57	8 a 49	0 14	2
4	K. Geo. III. b	Cor. Ch	8 10	22 28	21 7	9 45	1 3	2
5	Pr. Ern. Aug. b	Ter. be.	8 11	22 35	21 17	10 34	1 53	1
6	[Bonifa.	3 49	8 11	22 41	20 22	11 15	2 45	1
D	Sun. af. Trin.	3 48	8 12	22 47	18 25	11 51	3 36	1
8		3 47	8 13	22 53	15 29	morn	4 27	1
9		3 47	8 13	22 58	11 42	0 22	5 18	1
10		3 46	8 14	23 3	7 13	0 47	6 8	1
11	St. Barnabas	3 45	8 15	23 7	2 16	1 12	6 58	0
12		3 45	8 15	23 11	2 n 55	1 34	7 49	0
13		3 44	8 16	23 15	8 3	1 59	8 41	0
D	Sun. af. Trin.	3 44	8 16	23 18	12 46	2 25	9 36	0
15		3 44	8 16	23 20	16 45	2 56	10 33	0
16		3 44	8 16	23 23	19 37	D sets	11 32	0
17	St. Alban	3 43	8 17	23 24	21 8	8 a 48	0 a 33	0
18		3 43	8 17	23 26	21 14	9 44	1 33	0
19		3 43	8 17	23 27	19 59	10 30	2 30	0
20	Tra. Edw. KWS	3 43	8 17	23 28	17 36	11 5	3 25	1
D	Sun. af. Trin.	Long D.	8 17	23 28	14 23	11 33	4 15	1
22		3 43	8 17	23 28	10 34	11 56	5 1	1
23		3 43	8 17	23 27	6 23	morn	5 46	1
24	Nativ. J. Bapt.	Midf.	8 17	23 26	2 3	0 16	6 28	1
25	[Ter. e.	3 43	8 17	23 25	2 s 18	0 35	7 9	2
26		3 44	8 16	23 23	6 32	0 54	7 51	2
27		3 44	8 16	23 20	10 30	1 14	8 33	2
D	Sun. af. Trin.	3 44	8 16	23 18	14 4	1 35	9 18	2
29	St. Peter	3 44	8 16	23 15	17 6	2 1	10 4	2
30		3 45	8 15	23 11	19 26	2 29	10 52	3
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.
D	increas.	of day	long. ♀	long. ♂	long. ♂	long. ☉	long. ♀	long. ♀
1	8 30	16 14	3 11 21	27 55	25 11 22	10 45	12 39	19 25
7	8 40	16 24	3 34 28	23 28	19 16	36	22 11	22 47
13	8 44	16 30	3 48 28	54	1 14	22 20	1 43	20 33
19	8 50	16 34	4 1 29	25	4 8	28	4 11	16 13
25	8 50	16 34	4 15 29	56	6 59	3 47	20 50	3 23

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June.

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M	Daylig. begins	Daylig. ends	Durat. twilig.	Pl, (C's node	h's latitude	u's latitude	♂'s latitude	♀'s latitude	♂'s latitude
1				1Ω55	1 42	0 29	0 n 41	1 57	1 n 33
7	No	real	night.	1 36	1 41	0 30	0 44	1 52	2 0
13				1 17	1 41	0 32	0 46	1 45	1 59
19				0 58	1 41	0 33	0 49	1 36	1 34
25				0 39	1 41	0 34	0 51	1 24	0 45

M	☉'s longitude			D's long.	D's latitude	h's long.	u's long.	♂'s long.	♀'s long.	♂'s long.
1	11	51	51	27 m 1	4 n 34	4 11 6	7 24	19 11 41	5 8 52	19 11 43
2	11	49	15	9 1	3 59	4 13	7 23	20 22	7 3	21 49
3	12	46	38	21 9	3 13	4 21	7 21	21 2	8 14	23 53
4	13	44	1	3 5 23	2 18	4 29	7 19	21 43	9 25	25 54
5	14	41	22	15 47	1 16	4 37	7 17	22 23	10 36	27 54
6	15	38	43	28 21	0 8	4 45	7 15	22 4	11 47	29 51
D	16	36	4	11 8	1 8	4 53	7 13	23 44	12 58	1 46
8	17	33	24	24 10	2 8	5 1	7 10	24 25	14 9	3 39
9	18	30	44	7 30	3 10	5 8	7 7	25 5	15 20	5 30
10	19	28	4	21 10	4 2	5 16	7 4	25 45	16 31	7 18
11	20	25	23	5 10	4 42	5 23	7 1	26 26	17 42	9 24
12	21	22	42	19 30	5 5	5 31	6 58	27 6	18 54	10 47
13	22	20	0	4 8	5 10	5 39	6 55	27 46	20 5	12 27
D	23	17	18	18 59	4 53	5 46	6 51	28 26	21 16	14 5
15	24	14	36	3 55	4 17	5 54	6 47	29 6	22 28	15 41
16	25	11	54	18 48	3 24	6 1	6 43	29 46	23 39	17 15
17	26	9	11	3 29	2 17	6 8	6 39	0 26	24 51	18 46
18	27	6	27	17 52	1 3	6 16	6 35	1 6	26 2	20 14
19	28	3	44	1Ω51	0 n 13	6 23	6 31	1 46	27 14	21 39
20	29	0	59	15 24	1 26	6 30	6 26	2 26	28 25	23 1
D	29	58	14	28 33	2 32	6 38	6 21	3 6	29 37	24 21
22	30	55	28	11 m 18	3 29	6 45	6 16	3 45	0 11 49	25 40
23	1	52	42	23 44	4 15	6 52	6 11	4 25	2 0	26 56
24	2	49	55	5 56	4 48	7 0	6 6	5 4	3 12	28 8
25	3	47	8	17 56	5 7	7 7	6 1	5 44	4 24	29 16
26	4	44	20	29 50	5 14	7 14	5 55	6 24	5 35	30 21
27	5	41	32	11 m 43	5 7	7 22	5 50	7 3	6 47	1 24
D	6	38	43	23 38	4 46	7 29	5 44	7 43	7 59	2 25
29	7	35	53	5 37	4 13	7 30	5 38	8 22	9 11	3 22
30	8	33	4	17 45	3 29	7 44	5 32	9 2	10 23	4 15

M	u rites	♂ sets	♀ rises	♂ sets	h's declin.	u's declin.	♂'s declin.	♀'s declin.	♂'s declin.
1	11 a 30	8 a 57	2 m 36	9 a 4	19 n 20	18 s 55	23 n 45	11 n 40	24 n 37
7	11 13	8 52	2 26	9 38	19 29	18 59	24 3	13 58	25 27
13	10 48	8 46	2 17	9 56	19 37	19 5	24 13	15 6	24 52
19	10 22	8 39	2 9	9 59	19 44	19 12	24 16	18 1	23 16
25	9 56	8 31	2 4	9 50	19 52	19 21	24 12	19 40	21 4

The LUNATIONS.

Full Moon	the 2d day,	at 44 minutes past	7 morning
Left quarter	the 9th day,	at 18 minutes past	2 afternoon.
New Moon	the 16th day,	at 31 minutes past	7 morning
First quarter	the 23d day,	at 45 minutes past	9 night.
Full Moon	the 31st day,	at 53 minutes past	7 night.

M.	Sundays & other	☉	☿	♄	♅	♆	♇	♈	♉	♊
D	remark. days	rises	sets	declin.	declin.	& sets	South	South	South	South
1		3 45	8 15	23 n	7 20 s	54	3 m 6	11 a 43	3 22	3 22
2	Visit. of B.V.M.	3 46	8 14	23	3 21	22	☿ rises	morn	3 11	3 11
3	Dog days begin	3 46	8 14	22	58 20	45	9 a 10	0 35	3 44	3 44
4	Trans. St. Mar.	3 47	8 13	22	53 19	3	9 48	1 27	3 38	3 38
5	Sun. af. Trin.	3 48	8 12	22	48 16	20	10 20	2 19	4	4
6	[Old Midf.	3 48	8 12	22	42 12	42	10 47	3 10	4 11	4 11
7	Cam. Co. Tho.	3 49	8 11	22	36 8	23	11 12	4 0	4 2	4 2
8	[à Becket	3 50	8 10	22	29 3	33	11 35	4 50	4 3	4 3
9		3 51	8 9	22	22 1 n	31	11 58	5 4	4 4	4 4
10	Cam. Ter. ends	3 51	8 9	22	15 6	34	morn	6 30	4 5	4 5
11		3 52	8 8	22	7 11	19	0 22	7 22	5	5
12	Sun. af. Trin.	3 53	8 7	21	58 15	27	0 51	8 16	5	5
13	Oxford Aft	3 54	8 6	21	50 18	40	1 25	9 13	5	5
14		3 55	8 5	21	41 20	42	2 6	10 12	5	5
15	Swithin	3 56	8 4	21	32 21	22	2 57	11 12	5	5
16		3 58	8 2	21	22 20	39	☿ sets	0 a 10	5	5
17		3 59	8 1	21	12 18	43	8 a 56	1 6	5	5
18	Oxford Ter. en.	4 0	8 0	21	1 15	45	9 27	1 59	5	5
19	Sun. af. Trin.	4 1	7 59	20	51 12	6	9 53	2 48	5	5
20	Margaret	4 2	7 58	20	39 7	57	10 15	3 34	5	5
21		4 4	7 56	20	28 3	35	10 36	4 18	5	5
22	Magdalen	4 5	7 55	20	16 0 s	50	10 54	5 0	6	6
23		4 6	7 54	20	4 5	9	11 14	5 42	6	6
24		4 7	7 53	19	51 9	14	11 36	6 25	6	6
25	St. James	4 9	7 51	19	39 12	57	11 59	7 9	6	6
26	Sun. af. Trin.	4 10	7 50	19	25 16	10	morn	7 54	6	6
27	[S. Anne	4 12	7 48	19	12 18	44	0 26	8 42	6	6
28		4 13	7 47	18	58 20	30	1 0	9 32	6	6
29		4 15	7 45	18	44 21	19	1 43	10 24	6	6
30		4 16	7 44	18	30 21	3	2 34	11 17	6	6
31		4 18	7 42	18	15 19	40	☿ rises	morn	5	5
32	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.
D	decreas	of day	long. ♀	long. ♀	long. ♂	long. ♂	long. ♀	long. ♀	long. ♂	long. ♂
1	0 5	16 29	4 12 28	0 57 12	9 50 45	30	0 8 25	2 11 9	1 10	1 10
7	0 12	16 22	4 41 0	0 57 12	48 15	13	10 1	7 7 53	1 10	1 10
13	0 22	16 12	4 55 1	0 28 15	28 20	57	19 38	24 24	1 10	1 10
19	0 36	15 58	5 8 1	0 50 18	15 26	40	29 16	11 25	0 4	0 4
25	0 52	15 42	5 21 2	0 30 21	1 2 24	24	8 11 56	29 46	0 4	0 4

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July.

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M	Day lig.	Day lig.	Durat.	Pl. D's	h's	u's	δ's	♀'s	♂'s
D	begins	ends	twilig.	node	latitude	latitude	latitude	latitude	latitude
1				0 Ω 19	1 s 41	0 s 35	0 n 53	1 s 11	0 s 22
7	All	day-	light.	0 0	1 41	0 36	0 55	0 57	1 44
13				29 Ω 41	1 42	0 37	0 57	0 42	3 11
19				29 22	1 42	0 38	0 59	0 26	4 25
25	0 45	11 7	3 20	29 3	1 42	0 39	1 1	0 10	4 57
M	☉'s longitude		D's long.	D's latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.
1	9 30	14	0 2	2 n 34	7 11 51	5 26	9 42	11 11 35	5 Ω 6
2	10 27	25	12 31	1 31	7 58	5 20	10 22	12 47	5 54
3	11 24	35	25 11	0 22	8 5	5 13	11 1	13 59	6 37
4	12 21	45	8 4	0 s 49	8 12	5 7	11 41	15 11	7 15
10	13 18	56	21 10	1 58	8 19	5 0	12 20	16 23	7 49
6	14 16	7	4 X 30	3 3	8 26	4 54	13 0	17 35	8 20
7	15 13	19	18 4	3 58	8 32	4 47	13 39	18 47	8 48
8	16 10	31	1 Y 51	4 41	8 39	4 40	14 19	19 59	9 12
9	17 7	44	15 52	5 8	8 46	4 33	14 58	21 11	9 31
10	18 4	57	0 8 4	5 16	8 52	4 26	15 38	22 24	9 44
11	19 2	11	14 26	5 5	8 59	4 19	16 17	23 36	9 52
D	19 59	25	28 54	4 35	9 6	4 12	16 56	24 48	9 R 56
13	20 56	40	13 11 25	3 47	9 12	4 4	17 35	26 1	9 56
14	21 53	56	27 52	2 45	9 19	3 57	18 15	27 13	9 51
15	22 51	12	12 20 10	1 33	9 25	3 49	18 54	28 26	9 41
16	23 48	29	26 15	0 10	9 31	3 42	19 33	29 38	9 26
17	24 45	46	10 Ω 2	1 n 0	9 38	3 34	20 12	1 51	9 7
18	25 43	4	23 29	2 11	9 44	3 27	20 51	2 4	8 44
D	26 40	22	6 m 34	3 13	9 50	3 19	21 30	3 17	8 15
20	27 37	41	19 20	4 4	9 56	3 12	22 39	4 30	7 42
21	28 35	0	1 48	4 42	10 2	3 4	22 48	5 42	7 6
22	29 32	19	14 0	5 6	10 8	2 56	23 27	6 55	6 28
23	Ω 0	29 38	26 2	5 17	10 14	2 48	24 6	8 8	5 48
24	1 26	58	7 m 57	5 13	10 20	2 40	24 45	9 20	5 6
25	2 24	18	19 50	4 57	10 25	2 32	25 24	10 33	4 21
D	3 21	39	1 f 46	4 27	10 31	2 24	26 3	11 46	3 36
27	4 19	0	13 49	3 46	10 36	2 16	26 42	12 59	2 53
28	5 16	21	26 1	2 54	10 42	2 9	27 20	14 12	2 11
29	6 13	43	8 v 52	1 53	10 47	2 1	27 59	15 25	1 31
30	7 11	6	21 9	0 45	10 53	1 53	28 38	16 38	0 54
31	8 8	30	4 8	0 s 27	10 58	1 46	29 17	17 51	0 20
M	u's	δ's	♀'s	♂'s	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
D	rises	rises	rises	sets	declin.	declin.	declin.	declin.	declin.
1	9 a 30	3 m 40	2 m 0	9 a 33	19 n 58	19 s 30	24 n 0	21 n 1	18 n 39
7	9 4	3 37	1 58	9 8	20 5	19 41	23 41	22 3	16 25
13	8 38	3 34	2 0	8 36	20 11	19 52	23 16	22 43	14 43
19	8 12	3 31	2 7	8 0	20 16	20 3	22 44	23 0	13 58
25	7 45	3 27	2 16	7 22	20 21	20 15	22 5	22 53	14 23

The LUNATIONS.

Last quarter the 7th day, at 47 minutes past 6 afternoon.
 New Moon the 14th day, at 53 minutes past 5 afternoon.
 First quarter the 22d day, at 26 minutes past 3 afternoon.
 Full Moon the 30th day, at 37 minutes past 6 morning.

M	Sundays & other	☉	☾	☉'s	☾'s	☾ rises	☾	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	bef. ☉
1	Lammas Day	4 19	7 41	18 n 0	17 s 12	8 a 21	0 m 10	5 55
2	Sun. af. Trin.	4 21	7 39	17 45	13 45	8 50	1 3	5 51
3		4 22	7 38	17 29	9 31	9 16	1 55	5 46
4		4 24	7 36	17 13	4 44	9 39	2 46	5 41
5		4 26	7 34	16 57	0 n 22	10 2	3 36	5 38
6	Transfiguration	4 27	7 33	16 41	5 28	11 26	4 27	5 29
7	Mrs. Amelia bo.	4 29	7 31	16 24	10 16	11 53	5 18	5 22
8	[Na. of Jesus	4 31	7 29	16 7	14 31	morn	6 11	5 15
9	Sun. af. Trin.	4 32	7 28	15 50	17 56	0 24	7 6	5 7
10	St. Lawrence	4 34	7 26	15 32	20 15	1 2	8 3	4 58
11	Mrs. Brunl. b.	Do. d. e.	7 24	15 14	21 19	1 49	9 1	4 49
12	r. of Wales b.	O. Lam	7 23	14 56	21 3	2 45	9 59	4 40
13		4 39	7 21	14 38	19 32	3 49	10 56	4 30
14		4 41	7 19	14 20	16 56	☾ sets	11 50	4 19
15	Assumption	4 43	7 17	14 1	13 30	7 a 55	0 a 41	4 8
16	Mrs. a. Tri. D. of	4 45	7 15	13 42	9 29	8 20	1 29	3 56
17	[York b.	4 46	7 14	13 23	5 8	8 41	2 14	3 44
18		4 48	7 12	13 4	0 40	9 1	2 57	3 31
19		4 50	7 10	12 44	3 s 44	9 21	3 40	3 18
20		4 52	7 8	12 24	7 57	9 41	4 23	3 4
21	r. of Claren. b.	4 54	7 6	12 4	11 49	10 5	5 7	2 50
22		4 55	7 5	11 44	15 13	10 31	5 52	2 35
23	Sun. af. Tri.	4 57	7 3	11 24	18 0	11 1	6 38	2 20
24	St. Bartholomew	4 59	7 1	11 3	20 3	11 38	7 26	2 4
25		5 1	6 59	10 43	21 12	morn	8 17	1 48
26		5 3	6 57	10 22	21 20	0 25	9 10	1 31
27		5 5	6 55	10 1	20 22	1 22	10 3	1 15
28	St. Augustine	5 7	6 53	9 40	18 16	2 26	10 57	0 57
29	John Bap. beh.	5 9	6 51	9 18	15 5	3 39	11 51	0 40
30	Sun. a. Tri.	5 10	6 50	8 57	11 0	☾ rises	morn	0 22
31		5 12	6 48	8 35	6 14	7 a 48	0 42	0 3
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	h
D	decreas.	of day	long. ♀	long. ♂	long. ♂	long. ☉	long. ♀	rises
1	1 12	15 22	5 11 37	3 37	24 13	9 6	20 11 13	24 7 11 a 5
7	1 31	15 3	5 50	3 38	26 57	14 51	29 54	18 56 11 37
13	1 51	14 43	6 4	4 10	29 40	20 37	9 37	18 39 11 16
19	2 13	14 21	6 17	4 41	28 22	26 23	19 21	23 33 10 55
25	2 35	13 59	6 30	5 12	5 3	2 10 29	5 10 13	10 34

1795.

August.

23

Clock
ref. O

5' 55"

5' 51"

5' 46"

5' 41"

5' 35"

5' 29"

5' 22"

5' 15"

5' 7"

4' 58"

4' 49"

4' 40"

4' 30"

4' 19"

4' 8"

56'

44'

32'

12'

59'

33'

20'

4'

48'

31'

15'

57'

40'

22'

3'

2
fes

a 53'

37'

16'

55'

34'

Day-lig begins	Day-lig ends	Durat. twilig.	Pl. D's node	h's latitude	u's latitude	♂'s latitude	♀'s latitude	♂'s latitude
1 23	10 34	2 58	28 24	1 43	0 40	1 3	0 9	4 18
1 47	10 13	2 46	28 22	1 44	0 41	1 5	0 24	2 53
2 9	9 51	2 34	28 3	1 44	0 41	1 6	0 38	1 13
2 29	9 30	2 25	27 44	1 45	0 42	1 8	0 50	0 17
2 47	9 13	2 18	27 25	1 46	0 42	1 9	1 1	1 18

☉'s longitude	D's long.	D's latitude	h's long.	u's long.	♂'s long.	♀'s long.	♂'s long.
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1 9 5 55	17 23	1 39	11 4	1 38	29 55	19 26	29 51
10 3 20	0 54	2 46	11 9	1 30	0 34	20 17	29 25
11 0 47	1 4 39	3 45	11 14	1 23	1 13	21 31	29 6
11 58 15	2 8 36	4 32	11 19	1 15	1 51	22 44	28 55
12 55 44	12 41	5 3	11 24	1 8	2 30	23 57	28 49
13 53 15	26 52	5 16	11 29	1 0	3 9	25 10	28 49
14 50 47	11 8 6	5 9	11 34	0 53	3 47	26 24	28 54
15 48 20	25 19	4 44	11 39	0 46	4 26	27 37	29 7
16 45 55	9 11 30	4 1	11 43	0 39	5 4	28 51	29 28
17 43 32	23 37	3 4	11 48	0 32	5 43	0 4	29 56
18 41 10	7 26 37	1 56	11 53	0 25	6 21	1 18	0 31
19 38 49	21 28	0 43	11 58	0 18	7 0	2 31	1 13
20 36 30	5 7	0 32	12 2	0 11	7 38	3 45	2 1
21 34 12	18 34	1 44	12 6	0 5	8 17	4 58	2 56
22 31 56	1 45	2 49	12 11	29 58	8 55	6 12	3 37
23 29 41	14 40	3 44	12 15	29 2	9 34	7 26	5 15
24 27 27	27 20	4 27	12 19	29 45	10 12	8 39	6 19
25 25 15	9 44	4 56	12 23	29 39	10 51	9 53	7 39
26 23 4	21 55	5 11	12 27	29 33	11 29	11 7	9 4
27 20 54	3 56	5 12	12 31	29 27	12 8	12 21	10 34
28 18 45	15 51	4 59	12 34	29 21	12 46	13 35	12 9
29 16 37	27 43	4 34	12 38	29 15	13 24	14 48	13 48
30 14 30	9 38	3 57	12 41	29 9	14 2	15 31	15 31
1 12 24	21 40	3 10	12 45	29 3	14 40	17 16	17 17
2 10 19	3 54	2 12	12 48	28 58	15 18	18 30	19 5
3 8 16	16 24	1 8	12 51	28 52	15 57	19 44	20 56
4 6 14	29 14	0 2	12 54	28 48	16 35	20 58	22 40
5 4 14	12 26	1 13	12 57	28 43	17 13	22 12	24 44
6 2 15	26 1	2 22	13 0	28 38	17 51	23 26	26 40
7 0 18	9 56	3 24	13 3	28 33	18 30	24 40	28 36
7 58 22	24 8	4 15	13 6	28 28	19 8	25 54	0 32

☉'s rises	♂'s rises	♀'s rises	♂'s rises	h's declin.	u's declin.	♂'s declin.	♀'s declin.	♂'s declin.
1 3 m 44	3 m 25	2 m 29	3 m 43	20 n 26	20 s 28	21 n 13	22 n 15	16 n 0
7 3 18	3 24	2 43	3 11	0 29	20 39	20 22	21 17	17 34
13 2 52	3 23	3 0	3 0	20 32	20 48	19 27	19 57	18 33
19 2 25	3 22	3 20	3 13	20 35	20 57	18 27	18 16	18 17
25 1 59	3 22	3 40	3 44	20 37	21 4	17 22	16 16	16 21

The LUNATIONS.

Last quarter the 5th day, at 57 minutes past 11 night.
 New Moon the 13th day, at 46 minutes past 6 morning.
 First quarter the 21st day, at 39 minutes past 9 morning.
 Full Moon the 28th day, at 25 minutes past 4 afternoon.

M	Sundays & other	☉	☉	☉'s	☾'s	☾ rises	☾	Clock	
D	remark. days	rises	sets	declin.	declin.	& sets	South	aft. ☉	
1	Giles	5 14	6 46	8 n 14	1 s 3	8 a 12	1 m 35	0 16	
2	Land. bur. 1666	5 16	6 44	7 52	4 n 12	8 37	2 27	0 34	
3		5 18	6 42	7 30	9 14	9 3	3 20	0 54	
4		5 20	6 40	7 8	13 47	9 33	4 14	1 13	
5		5 22	6 38	6 45	17 22	10 9	5 8	1 33	
6	14 Sun. af. Tri.	5 24	6 36	6 23	19 57	10 53	6 5	1 53	
7	Enurchus	5 26	6 34	6 0	21 17	11 45	7 3	2 13	
8	Nativ. V. M.	5 28	6 32	5 38	21 20	morn	8 0	2 33	
9		5 30	6 30	5 15	20 9	0 45	8 56	2 53	
10		5 32	6 28	4 52	17 52	1 53	9 51	3 14	
11		5 34	6 26	4 30	14 40	3 4	10 42	3 34	
12		5 35	6 25	4 7	10 50	4 15	11 30	3 53	
13	15 Sun. af. Tri.	5 37	6 23	3 44	6 34	☾ sets	0 a 16	4 10	
14	Holy Cross	5 39	6 21	3 21	2 5	7 a 14	1 1	4 37	
15		5 41	6 19	2 5	2 s 24	7 33	1 44	4 57	
16	Ember Week	5 43	6 17	2 34	6 44	7 54	2 27	5 18	
17	Lambert	5 45	6 15	2 11	10 45	8 15	3 10	5 39	
18		5 47	6 13	1 48	14 20	8 39	3 54	6 0	
19		5 49	6 11	1 24	17 20	9 8	4 40	6 21	
20	16 Sun. af. Tri.	5 51	6 9	1 1	19 38	9 42	5 27	6 42	
21	St. Matthew	5 53	6 7	0 38	21 6	10 23	6 16	7 3	
22	K. Geo. III. cr.	5 55	6 5	0 14	21 35	11 15	7 7	7 24	
23		5 57	6 3	0 8	9 21	2 morn	8 0	7 45	
24		5 59	6 1	0 31	19 21	0 15	8 52	8 5	
25	Old Holy Rood	6 1	5 59	0 56	16 38	1 22	9 46	8 26	
26	St. Cyprian	6 3	5 57	1 20	12 53	2 39	10 39	8 46	
27	17 Sun. af. Tri.	6 5	5 55	1 43	8 18	3 57	11 32	9 6	
28		6 7	5 53	2 6	3 7	☾ rises	morn	9 26	
29	St. Mi. Prs. Ro. b	6 9	5 51	2 30	2 n 19	6 a 41	0 25	9 46	
30	St. Jerome	6 11	5 49	2 53	7 40	7 13	1 18	10 5	
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	h
D	decreaf.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	long. ☿	rises
1	3	2 13 32	6 11 46	5 26 48	8 10	8 56	10 27	12 27	10 a 10
7	3	25 13 9	6 59	6 20	10 50	14 46	20 13	12 17 2	9 49
13	3	48 12 46	7 13	6 51	13 29	20 36	29 58	6 28	9 28
19	4	13 12 22	7 26	7 22	16 8	26 28	9 12 43	27 9	9 7
25	4	36 11 58	7 39	7 54	18 46	2 27 21	19 28	15 12 27	8 45

1795.

September.

25

M	Day	lig.	Day	lig.	Durat.	Pl.	D's	h's	u's	δ's	♀'s	♂'s
D	begins		ends.		twilig.	node		latitude	latitude	latitude	latitude	latitude
1	3	7	8	5	2	11 27 15	2	1 s 40	0 s 42	1 n 10	1 n 12	1 n 46
7	3	24	8	30	2	6 26	43	1 47	0 42	1 11	1 19	1 41
13	3	37	8	23	2	4 26	24	1 48	0 42	1 12	1 23	1 17
19	3	52	8	8	2	1 26	5	1 49	0 42	1 13	1 25	0 42
25	4	5	7	55	2	0 25	40	1 47	0 42	1 14	1 25	0 1

Clock
aft. ☉

M	☉'s	D's	D's	h's	u's	δ's	♀'s	♂'s
D	longitude	long	latitude	long.	long.	long.	long.	long.
1	8 50 28	8 33	4 s 51	13 11	9 28 24	19 46	27 9	21 28
2	9 54 36	8 35	5 8	13 12	28 20	24 28	28 23	4 25
3	10 52 47	7 35	5 5	13 14	28 17	21 2	29 37	6 22
4	11 50 59	6 35	4 43	13 17	28 13	21 4	30 52	8 18
5	12 49 13	6 11	4 4	13 17	28 10	22 18	2 6	10 15
6	13 4 29	20 21	3 11	13 21	28 6	22 56	3 20	12 8
7	14 45 48	4 50	2 7	13 23	28 3	23 35	4 35	14 2
8	15 44 9	17 52	0 56	13 25	28 0	24 11	5 49	15 55
9	16 42 31	18 18	0 n 16	13 27	27 57	24 49	7 4	17 47
10	17 40 56	14 33	1 26	13 28	27 55	25 27	8 18	19 38
11	18 39 23	27 37	2 31	13 30	27 52	26 5	9 33	21 28
12	19 37 52	10 28	3 26	13 32	27 49	25 47	10 47	23 17
13	20 36 24	23 8	4 11	13 33	27 47	27 21	12 23	25 6
14	21 31 56	5 36	4 42	13 34	27 45	27 50	13 16	26 54
15	22 33 31	17 53	5 0	13 35	27 4	28 37	14 31	28 40
16	23 32 8	0 11	5 5	13 36	27 42	29 14	15 46	0 24
17	24 30 46	11 57	4 55	13 37	27 41	29 53	17 0	2 8
18	25 29 27	23 50	4 33	13 38	27 39	30 31	18 15	3 57
19	26 28 8	5 39	3 59	13 39	27 38	1 8	19 30	5 33
20	27 26 52	17 31	3 15	13 39	27 37	1 46	20 44	7 14
21	28 25 57	29 31	2 22	13 40	27 36	2 24	21 59	8 54
22	29 24 24	11 42	1 22	13 40	27 36	3 2	23 14	10 33
23	0 23 12	4 10	0 16	13 41	27 36	3 40	24 28	12 11
24	1 22 2	7 1	0 s 52	13 41	27 36	4 18	25 43	13 48
25	2 20 54	20 18	2 0	13 41	27 37	4 50	26 58	15 22
26	3 19 48	4 2	3 3	13 41	27 37	5 3	28 13	16 59
27	4 18 43	18 12	3 56	13 41	27 38	6 10	29 27	18 54
28	5 17 41	2 46	4 36	13 40	27 39	6 48	0 42	20 8
29	6 16 40	17 36	4 58	13 40	27 40	7 25	1 5	21 41
30	7 15 42	2 33	5 0	13 39	27 41	8 3	3 12	23 12

h's
iles

M	u's	δ's	♀'s	♂'s	h's	u's	δ's	♀'s	♂'s
D	sets	rites	rites	sets	declin.	declin.	declin.	declin.	declin.
1	1 m 31	3 m 23	4 m 2	6 a 49	20 n 39	21 s 12	16 n 1	3 n 36	12 n 16
7	1 8	3 23	4 23	6 44	20 40	21 16	14 40	4 7	51
13	0 45	3 23	4 44	6 38	20 40	21 20	13 3	8 20	3 8
19	0 22	3 23	5 6	6 30	20 40	21 21	12 13	5 28	1 34
25	0 1	3 23	5 26	6 21	20 40	21 21	10 52	2 30	6 3

The LUNATIONS.

Last quarter the 5th day, at 15 minutes past 7 morning.

New Moon the 12th day, at 21 minutes past 10 night.

First quarter the 21st day, at 11 minutes past 3 morning.

Full Moon the 28th day, at 53 minutes past 1 morning.

M	Sundays & other	☉	☉	☉'s	☉'s	☉ rises	☉	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	aft. ☉
1	Remigius	6 13	5 47	3 s 16	12 n 35	7 a 42	2 m 13	10 24
2		6 15	5 45	3 40	16 38	8 15	3 10	10 43
3		6 17	5 43	4 3	19 36	8 58	4 7	11 2
4	28 Sun. af. Tri.	6 19	5 41	4 26	21 18	9 50	5 6	11 20
5		6 21	5 39	4 49	21 39	10 47	6 5	11 38
6	Faith	6 23	5 37	5 12	20 43	11 54	7 2	11 55
7		6 25	5 35	5 36	18 39	morn	7 56	12 12
8		6 27	5 33	5 59	15 40	1 3	8 47	12 29
9	St. Denys	6 28	5 32	6 21	11 59	2 13	9 36	12 45
10	Ox. & Cam. T. b	O. M. c.	5 30	6 44	7 49	3 23	10 22	13 0
11	9 Sun. af. Tri.	6 32	5 28	7 7	3 23	4 32	11 6	13 15
12		6 34	5 26	7 30	1 s 8	☉ sets	11 49	13 39
13	Tr. K. Edw. Con.	6 36	5 24	7 52	5 33	6 a 6	0 a 32	13 44
14		6 38	5 22	8 15	9 43	6 27	1 15	13 58
15		6 40	5 20	8 37	13 30	6 50	1 58	14 11
16		6 42	5 18	8 59	16 43	7 15	2 43	14 23
17	Etheldred.	6 44	5 16	9 21	19 15	7 47	3 29	14 35
18	20 S. a. Trin. St.	6 46	5 14	9 43	20 59	8 25	4 17	14 46
19	[Luke	6 48	5 12	10 5	21 48	9 12	5 7	14 57
20		6 50	5 10	10 26	21 36	10 7	5 58	15 7
21		6 52	5 8	10 48	20 21	11 11	6 49	15 17
22		6 54	5 6	11 9	18 3	morn	7 40	15 26
23		6 55	5 5	11 30	14 45	0 20	8 31	15 34
24	[Geo. 3. acc.	6 57	5 3	11 51	10 32	1 35	9 23	15 41
25	21 S. a. Tri. K.	Crisp n	5 1	12 12	5 17	2 54	10 15	15 48
26	K. Geo. 3. proc.	7 1	4 59	12 33	0 13	4 15	11 8	15 54
27		7 3	4 57	12 53	5 n 19	5 39	morn	16 0
28	St. Sim. & Jude	7 5	4 55	13 13	10 37	☉ rises	0 3	16 4
29		7 7	4 53	13 33	15 15	6 16	1 0	16 8
30		7 9	4 51	13 53	18 51	6 54	1 59	16 11
31		7 10	4 50	14 12	21 7	7 44	2 59	16 14
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.
D	decreas.	of day	long. ♀	long. ♂	long. ♀	long. ♂	long. ♀	long. ♂
1	4 49	11 35	7 11 53	8 25 25	21 24	8 15	29 11	2 26
7	5 23	11 11	8 6 8	56 24	114 10	8 53	18 56	8 1
13	5 46	10 48	8 20 9	29 26	39 20	7 18	34 54	7 38
19	6 9	10 25	8 33 9	59 29	16 26	4 28	13 23	30 7
25	6 32	10 2	8 46 10	31 12	253 28	3 7	13 15	6 52

1795.

October.

27

M	Daylig.	Daylig.	Durat.	Pl.	D's	h's	u's	δ's	♀'s	♂'s
D	begins	ends	twilig.	node	latitude	latitude	latitude	latitude	latitude	latitude
1	4 18	7 42	1 59	25 27	1 50	0 42	1 n 15	1 n 23	0 s 42	
7	4 31	7 29	1 58	25 8	1 51	0 42	1 16	1 18	1 24	
13	4 43	7 17	1 57	24 49	1 51	0 42	1 16	1 11	2 3	
19	4 55	7 5	1 57	24 30	1 52	0 42	1 17	1 2	2 35	
25	5 6	6 54	1 58	24 11	1 52	0 42	1 17	0 52	2 54	

M	☉'s		D's	D's	h's	u's	δ's	♀'s	♂'s
D	longitude		long.	latitude	long.	long.	long.	long.	long.
1	8 14	46	17 8 29	4 s 42	13 11 39	27 42	2 n 10	4 27	24 44
2	9 13	52	2 11 15	4 5	13 38	27 44	9 18	5 42	26 14
3	10 13	0	16 44	3 12	13 38	27 46	9 56	6 57	27 43
D	11 12	11	0 54	2 9	13 37	27 48	10 33	8 12	29 12
5	12 11	24	14 43	1 0	13 36	27 50	11 11	9 27	om 40
6	13 10	40	28 13	0 n 11	13 35	27 52	11 4	10 42	2 7
7	14 9	58	11 25	1 20	13 34	27 55	12 26	11 57	3 33
8	15 9	19	24 22	2 24	13 32	27 58	13 4	13 12	4 58
9	16 8	42	7 n 6	3 19	13 31	28	13 41	14 27	6 22
10	17 8	7	19 40	4 3	13 29	28	14 19	15 42	7 45
D	18 7	34	2 3	4 35	13 28	28	14 56	16 57	9 7
12	19 7	4	14 19	4 54	13 26	28	15 34	18 12	10 28
13	20 6	36	26 26	4 59	13 24	28	15 16	19 28	11 49
14	21 6	10	8 m 26	4 51	13 22	28	19 16	49 20	43 13
15	22 5	46	20 20	4 31	13 20	28	23 17	26 21	58 14
16	23 5	24	2 10	3 58	13 18	28	18 3	23 13	15 43
17	24 5	3	13 58	3 16	13 16	28	32 18	41 24	28 16
D	25 4	44	25 48	2 24	13 14	28	36 19	18 25	43 18
19	26 4	27	7 v 45	1 26	13 11	28	41 19	55 26	59 19
20	27 4	12	19 53	0 23	13 9	28	46 20	33 28	14 20
21	28 3	58	2 17	0 s 42	13 6	28	51 21	10 29	29 21
22	29 3	46	15 3	1 48	13 3	28	57 21	47 om	44 22
23	m 0	3 36	28 15	2 50	13 0	29	2 22	25 1	59 23
24	1 3	27	11 56	3 44	12 57	29	7 23	2 3	14 24
D	2 3	20	26 8	4 26	12 54	29	13 23	39 4	29 5
26	3 3	15	10 v 48	4 53	12 51	29	19 24	17 5	44 26
27	4 3	11	25 50	5 1	12 48	29	26 24	54 6	59 27
28	5 3	10	11 8 4	4 47	12 44	29	32 25	31 8	15 28
29	6 3	11	26 20	4 13	12 41	29	39 26	8 9	30 29
30	7 3	13	11 26	3 21	12 37	29	45 26	45 10	45 29
31	8 3	17	26 15	2 17	12 34	29	52 27	22 22	0 28
M	u's	δ's	♀'s	♂'s	h's	u's	δ's	♀'s	♂'s
D	fets	rises	rises	fets	declin.	declin.	declin.	declin.	declin.
1	11 a 35	3 m 23	5 m 47	6 a 11	20 n 39	21 s 20	9 n 29	0 s 31	10 s 14
7	11 15	3 22	6 5	6 2	20 37	21 17	8 4	3 32	14 2
13	10 55	3 21	fets	5 52	20 35	21 13	6 38	6 32	17 21
19	10 35	3 20	5 a 20	5 43	20 33	21 8	5 11	9 27	20 5
25	10 15	3 19	5 12	5 34	20 31	21 1	3 43	12 13	22 5

The LUNATIONS.

Last quarter the 3d day, at 40 minutes past 5 afternoon.

New Moon the 11th day, at 11 minutes past 4 afternoon.

First quarter the 19th day, at 44 minutes past 6 afternoon.

Full Moon the 26th day, at 42 minutes past 11 morning.

M	Sundays & other	☉	☉	☉'s	☉'s	☉ rises	☉	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	aft. ☉
D 22	S. a. T. All Sa.	7 12	4 4	14 32	21 n 57	8 a 40	4 m 0	16 15
2	Pr. Edward born	All Sou	4 46	14 51	21 21	9 46	4 59	16 16
3	Prs. Sophia b.	7 16	4 44	15 10	19 31	10 56	5 56	16 16
4	K. William Ian.	7 18	4 4	15 28	16 41	morn	6 49	16 15
5	Powder Plot	7 19	4 41	15 47	13 6	0 6	7 38	16 13
6	Leona. d. 1er. da	7 21	4 39	16 5	9 0	1 17	8 24	16 10
7	[Au. Sop. b.	7 23	4 37	16 23	4 36	2 25	9 8	16 7
D 23	S. a. Tr. Prs.	7 24	4 36	16 40	0 5	3 33	9 51	16 2
9	Lord Mayor's d.	7 26	4 34	16 57	4 s 2	4 40	10 33	15 57
10		7 28	4 32	17 14	8 40	5 4	11 15	15 51
11	St. Martin	7 30	4 30	17 31	12 56	D sets	11 58	15 44
12	Cam. T. civ. m.	7 31	4 29	17 47	16 2	5 a 19	0 a 42	15 36
13	Britius	7 33	4 27	18 4	18 40	5 48	1 27	15 27
14		7 34	4 26	18 19	20 48	6 23	2 14	15 18
D 24	Sun. a. Tri.	Mach.	4 24	18 35	21 54	7 7	3 3	15 8
16		7 37	4 23	18 50	22 0	7 58	3 53	14 56
17	Hugh Bp. Linc.	7 39	4 21	19 5	21 4	8 57	4 43	14 44
18		7 40	4 20	19 19	19 7	10 4	5 33	14 32
19		7 42	4 18	19 33	16 11	11 13	6 21	14 18
20	Edmund K. & M.	7 43	4 17	19 47	12 23	morn	7 11	14 4
21		7 45	4 15	20 0	7 50	0 27	8 0	13 48
D 25	Sun. af. Tri.	Cecilia.	O. Mar.	20 13	2 43	1 44	8 50	13 32
23	St. Clement	7 47	4 13	20 26	2 n 42	3 4	9 42	13 16
24		7 49	4 11	20 38	8 8	4 27	10 36	12 53
25	Duke of Glou. b.	Cather.	4 10	20 50	13 10	5 5	11 34	12 40
26		7 51	4 9	21 1	17 23	D rises	morn	12 27
27		7 52	4 8	21 12	20 24	5 a 25	0 35	12 1
28	Mic. Term ends	7 54	4 6	21 23	21 57	6 18	1 37	11 47
D	Advent Sunday	7 55	4 5	21 33	21 56	7 22	2 39	11 20
30	St. Andrew	7 56	4 4	21 43	20 29	8 32	3 39	10 53
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	H
D	decreaf.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	rises
1	6 57	9 36	9 11	2 11	7 4	19 57	9 8	3 19
7	7 20	9 14	9 15	11 39	7 34	15 52	8 37	5 59
13	7 39	8 55	9 29	12 10	10 12	21 7	8 10	5 33
19	7 58	8 36	9 42	12 42	12 49	27 11	17 42	5 6
25	8 14	8 20	0 56	13 13	15 27	3 11	27 12	4 39

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November.

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M.	Daylig.	Daylig.	Durat.	Pl. D's	h's	u's	δ's	♀'s	♂'s
D.	begins	ends	twilig.	node	latitude	latitude	latitude	latitude	latitude
1	5 17	6 43	1 59	23 49	1 53	0 41	1 18	0 38	2 47
7	5 25	6 35	2 22	23 30	1 53	0 41	1 18	0 24	1 58
13	5 34	6 26	2 3	23 10	1 53	0 41	1 18	0 10	0 15
19	5 41	6 12	2 5	22 51	1 53	0 41	1 18	0 5	1 39
25	5 48	6 12	2 7	22 32	1 53	0 41	1 18	0 19	2 32

M.	☉'s	☽'s	☽'s	h's	u's	δ's	♀'s	♂'s
D.	longitude	long.	latitude	long.	long.	long.	long.	long.
1	m 9 3 24	10 34	1 s 5	12 11 30	26 59	27 59	13 16	0 4 56
2	10 3 33	24 37	0 n 9	12 27	0 6	28 36	14 31	1 21
3	11 3 44	8 10	1 20	12 23	0 14	29 13	15 46	1 35
4	12 3 57	21 20	2 24	12 19	0 21	29 50	17 2	1 37
5	13 4 12	4 10	3 20	12 15	0 29	30 27	18 17	1 32
6	14 4 30	16 44	4 5	12 11	0 36	1 4	19 3	1 20
7	15 4 50	29 5	4 37	12 7	0 44	1 41	20 48	1 2
8	16 5 12	11 16	4 56	12 3	0 52	2 18	22 3	0 34
9	17 5 36	23 20	5 2	11 59	1 0	2 55	23 18	29 51
10	18 6 1	5 19	4 55	11 54	1 9	3 32	24 34	28 58
11	19 6 28	17 13	4 34	11 50	1 17	4 9	25 49	27 58
12	20 6 57	29 4	4 2	11 46	1 25	4 46	27 4	26 50
13	21 7 27	10 54	3 19	11 41	1 34	5 23	28 20	25 35
14	22 7 59	22 44	2 27	11 37	1 43	6 0	29 35	24 15
15	23 8 33	4 37	1 20	11 32	1 52	6 37	0 1 50	22 54
16	24 9 8	16 36	0 26	11 28	2 1	7 14	2 6	21 34
17	25 9 44	28 45	0 39	11 23	2 10	7 51	3 21	20 18
18	26 10 21	11 8	1 44	11 18	2 19	8 28	4 36	19 8
19	27 11 0	23 49	2 45	11 13	2 29	9 4	5 52	18 1
20	28 11 40	6 55	3 40	11 9	2 3	0 41	7 7	17 8
21	29 12 21	20 27	4 24	11 4	2 4	10 18	8 22	16 26
22	30 13 2	4 29	4 54	10 59	2 59	10 54	9 37	15 56
23	1 13 45	18 59	5 7	10 54	3 0	11 31	10 52	15 37
24	2 14 29	3 55	5 0	10 49	3 1	12 8	12 7	15 29
25	3 15 14	19 7	4 32	10 44	3 20	12 44	13 23	15 33
26	4 16 0	4 27	3 44	10 40	3 40	13 21	14 35	15 46
27	5 16 48	19 42	2 40	10 35	3 50	13 57	15 53	16 8
28	6 17 37	4 44	1 26	10 30	4 1	14 34	17 9	16 40
29	7 18 27	19 23	0 7	10 25	4 11	15 10	18 24	17 19
30	8 19 19	3 35	1 n 9	10 20	4 22	15 47	19 39	18 5

M.	u's	δ's	♀'s	♂'s	h's	u's	δ's	♀'s	♂'s
D.	sets	rises	sets	sets	declin.	declin.	declin.	declin.	declin.
1	9 a 52	3 m 18	5 a 1	5 a 21	20 n 27	20 s 51	1 n 50	15 s 15	23 s 5
7	9 32	3 16	4 53	5 3	20 24	20 41	0 31	17 35	22 10
13	9 12	3 13	4 47	4 37	20 21	20 30	0 57	19 39	19 25
19	8 52	3 9	4 42	rises	20 17	20 18	2 24	21 23	15 30
25	8 33	3 3	4 40	6 m 0	20 13	20 4	3 50	22 44	14 5

The LUNATIONS.

Last quarter the 3d day, at 39 minutes past 7 morning.

New Moon the 11th day, at 17 minutes past 11 morning.

First quarter the 19th day, at 29 minutes past 7 morning.

Full Moon the 25th day, at 22 minutes past 10 night.

M	Sundays & other	☉	☉	☉'s	☾'s	☾ rises	☾	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	aft. ☉
1		7 57	4 3	21 s 52	17 n 52	9 a 45	4 m 35	10 35
2		7 58	4 2	22 1	14 23	10 58	5 27	10 11
3		7 59	4 1	22 10	10 18	morn	6 15	9 48
4		8 0	4 0	22 18	5 54	0 7	7 0	9 24
5		8 1	3 59	22 26	1 20	1 17	7 43	8 59
6	2 Sun. in Adve.	8 2	3 58	22 33	3 s 11	2 23	8 24	8 33
7	Nicholas	8 2	3 58	22 40	7 33	3 28	9 6	8 7
8	Concept. V.M.	8 3	3 57	22 46	11 36	4 34	9 48	7 41
9		8 4	3 56	22 52	15 12	5 39	10 31	7 14
10		8 4	3 56	22 58	18 12	6 43	11 15	6 46
11		8 5	3 55	23 3	20 27	☾ sets	0 a 2	6 13
12		8 5	3 55	23 8	21 48	4 a 55	0 51	5 30
13	3 Sun. in Advent	8 6	3 54	23 12	22 10	5 43	1 40	5 21
14	Lucy	8 6	3 54	23 15	21 30	6 39	2 29	4 52
15		8 7	3 53	23 19	19 48	7 42	3 18	4 23
16	Ember Week	Ca. T.e.	O Sapi.	23 21	17 8	8 50	4 7	3 54
17	Oxford Ter. e.	8 7	3 53	23 24	13 36	10 2	4 55	3 2
18		8 8	3 52	23 25	9 20	11 15	5 43	2 54
19		8 8	3 52	23 27	4 31	morn	6 31	2 25
20	4 Sun. in Adve.	8 8	3 52	23 27	0 n 40	0 32	7 19	1 55
21	St. Thomas	Shor. d.	3 52	23 28	5 56	1 49	8 10	1 25
22		8 8	3 52	23 28	11 2	3 10	9 4	0 55
23		8 8	3 52	23 27	15 34	4 33	10 1	0 25
24		8 8	3 52	23 26	19 9	5 57	11 1	obe. 5
25	Christmas Day	8 8	3 52	23 25	21 26	☾ rises	morn	0 35
26	St. Stephen	8 7	3 53	23 23	22 11	4 a 46	0 4	1 5
27	S. a. Ch. St. Jo.	8 7	3 53	23 20	21 22	5 55	1 6	1 31
28	Innocents	8 7	3 53	23 17	19 10	7 9	2 6	2 4
29		8 6	3 54	23 14	15 54	8 23	3 2	2 33
30		8 6	3 54	23 10	11 53	9 37	3 54	3 2
31	Silvester	8 5	3 55	23 6	7 26	10 49	4 42	3 31
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.
D	decreaf.	of day	long. ♀	long. ♀	long. ♂	long. ⊖	long. ♀	long. ♂
1	8 28	8 6	10 11	9 13	46 18	5 9	11 20	6 12
7	8 38	7 56	10 22	14 17	20 44	15 26	16 11	24 55
13	8 46	7 48	10 36	14 49	23 23	31 32	25 40	17 17
19	8 50	7 44	10 49	15 21	26 32	37 39	5 59	6 12
25	8 50	7 44	11 3	15 53	28 43	3 46	14 39	24 10

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December.

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M.	Day lig.	Day lig.	Durat.	Pl. D's	h's	l's	δ's	♀'s	♂'s
D	begins	ends	twilig.	node	latitude	latitude	latitude	latitude	latitude
1	5 54	6 6	20 18	22 13	1 s 52	0 s 41	1 n 18	0 33	2 n 27
7	5 57	6 3	2 10	21 54	1 51	0 41	1 17	0 47	1 53
13	5 59	6 1	2 12	21 35	1 51	0 41	1 17	0 59	1 9
19	5 1	5 59	2 11	21 16	1 50	0 41	1 16	1 10	0 23
25	6 1	5 59	2 11	20 57	1 49	0 41	1 15	1 20	0 s 20

M.	☉'s	D's	D's	h's	l's	δ's	♀'s	♂'s
D	longitude	long.	latitude	long.	long.	long.	long.	long.
1	♂ 9 20 12	17 19	2 n 19	10 11 15	4 33	16 23	20 45	18 56
2	10 21 6	0 36	3 20	10 10	4 44	17 02	22 10	19 50
3	11 22 2	13 30	4 8	10 5	4 55	17 36	23 25	20 52
4	12 22 59	16 3	4 43	10 0	5 7	18 13	24 41	22 1
5	13 23 58	8 20	5 4	9 55	5 18	18 49	25 56	23 11
6	14 24 58	20 26	5 11	9 50	5 29	19 26	27 11	24 23
7	15 26 0	2 23	5 4	9 45	5 41	20 28	27 25	25 36
8	16 27 2	14 16	4 45	9 40	5 52	20 39	29 42	26 52
9	17 28 6	26 7	4 13	9 35	6 4	21 15	31 57	28 11
10	18 29 10	7 57	3 30	9 30	6 16	21 51	2 12	29 32
11	19 30 15	19 50	2 38	9 25	6 27	22 27	3 27	0 45
12	20 31 21	1 46	1 39	9 20	6 39	23 3	4 42	2 17
13	21 32 28	13 47	0 35	9 16	6 51	23 39	5 58	3 42
14	22 33 35	25 55	0 32	9 11	7 3	24 15	7 13	5 7
15	23 34 43	8 13	1 38	9 6	7 15	24 51	8 28	6 33
16	24 35 51	20 44	2 41	9 2	7 28	25 27	9 44	8 0
17	25 36 59	3 30	3 37	8 57	7 40	26 3	10 59	9 28
18	26 38 7	16 35	4 23	8 52	7 52	26 39	12 14	10 56
19	27 39 16	0 1	5 14	8 48	8 5	27 15	13 30	12 24
20	28 40 24	13 51	5 14	8 43	8 18	27 51	14 45	13 53
21	29 41 33	28 5	5 12	8 39	8 31	28 27	16 0	15 23
22	30 42 41	12 41	4 51	8 35	8 44	29 2	17 15	16 53
23	1 43 50	27 34	4 11	8 30	8 57	29 38	18 30	18 23
24	2 44 59	13 38	3 12	8 26	9 10	0 14	19 45	19 54
25	3 46 8	27 43	2 0	8 22	9 23	0 49	21 12	21 25
26	4 47 17	12 41	0 40	8 18	9 36	1 25	22 16	22 56
27	5 48 27	27 23	0 41	8 14	9 49	2 1	23 31	24 28
28	6 49 36	11 42	1 58	8 10	10 2	2 36	24 46	26 0
29	7 50 46	25 36	3 5	8 6	10 11	3 12	26 12	27 32
30	8 51 56	9 3	4 0	8 2	10 28	3 48	27 16	29 5
31	9 53 7	22	4 41	7 58	10 41	4 23	28 31	0 38
M.	☉'s	♀'s	♂'s	h's	l's	δ's	♀'s	♂'s
D	fets	rises	fets	rises	declin.	declin.	declin.	declin.
1	♂ a 13	2 m 5	4 40	5 m 54	20 n 10	19 48	5 s 15	23 42
7	7 53	2 50	4 42	6 8	20 6	19 37	6 39	24 14
13	7 33	2 43	4 48	6 29	20 2	19 18	8 0	24 19
19	7 14	2 37	4 57	6 53	19 58	18 56	9 18	23 57
25	6 55	2 31	5 9	7 16	19 55	18 35	10 36	23 8

32 The Georgian or New Planet. White.

Dates		Heliocentric		Geocentric		Declin.		South.
Months	Days	longitude	latitude	longitude	latitude			
January	I	0 38	0 n 45	3 34	0 n 47	11 n 7	15	30
	11	0 46	0 45	2 40	0 47	11 13	14	45
	21	0 54	0 45	2 30	0 47	11 20	14	1
February	I	1 3	0 45	2 4	0 48	11 29	13	14
	11	1 10	0 45	1 39	0 48	11 39	12	33
	21	1 18	0 45	1 13	0 48	11 48	11	54
March	I	1 24	0 45	0 52	0 48	11 55	11	21
	11	1 32	0 45	0 27	0 48	12 4	10	43
	21	1 40	0 45	0 4	0 48	12 12	10	5
April	I	1 49	0 45	29 52	0 47	12 19	9	24
	11	1 56	0 4	29 27	0 47	12 25	8	46
	21	2 4	0 45	29 16	0 47	12 28	8	9
May	I	2 12	0 45	29 11	0 46	12 29	7	31
	11	2 20	0 45	29 D 11	0 46	12 29	6	52
	21	2 27	0 45	29 16	0 45	12 27	6	13
June	I	2 36	0 45	29 28	0 45	12 22	5	29
	11	2 44	0 45	29 45	0 45	12 16	4	49
	21	2 52	0 46	0 35	0 44	12 c	4	9
July	I	2 59	0 46	0 30	0 44	12 0	3	29
	11	3 7	0 46	0 59	0 44	11 49	2	50
	21	3 15	0 46	1 31	0 44	11 37	2	12
August	I	3 24	0 46	2 9	0 43	11 24	1	31
	11	3 31	0 46	2 45	0 43	11 11	0	55
	21	3 39	0 46	3 22	0 43	10 57	0	20
September	I	3 42	0 46	4 4	0 43	10 42	23	39
	11	3 56	0 46	4 41	0 43	10 28	23	5
	21	4 3	0 46	5 18	0 43	10 15	22	32
October	I	4 11	0 46	5 52	0 41	10 3	21	58
	11	4 19	0 46	6 24	0 44	9 51	21	21
	21	4 27	0 46	6 53	0 44	9 41	20	48
November	I	4 35	0 46	7 20	0 45	9 31	20	7
	11	4 43	0 46	7 40	0 45	9 24	19	28
	21	4 51	0 46	7 55	0 45	9 19	18	48
December	I	4 59	0 46	8 5	0 46	9 16	18	6
	11	5 6	0 46	8 c	0 46	9 15	17	23
	21	5 14	0 46	8 7	0 47	9 16	16	39
	31	5 22	0 46	8 c	0 47	9 19	15	54

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

No. Days	JANUARY				FEBRUARY				MARCH				APRIL				No. Days
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.		
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
1	10	15	10	40			0	2	10	35	11	9			0	22	1
2	11	24	11	5	0	35	1	4	11	41			0	45	1	9	2
3			0	32	1	31	1	59	0	14	0	42	1	31	1	53	3
4	1	2	1	32	2	25	2	45	1	8	1	33	2	15	2	34	4
5	2	1	2	28	3	3	3	19	1	57	2	20	2	53	3		5
6	2	52	3	11	3	33	3	47	2	40	2	57	3	20	3	34	6
7	3	28	3	44	4	1	4	17	3	12	3	26	3	47	4	2	7
8	3	59	4	16	4	32	4	48	3	39	3	52	4	16	4	33	8
9	4	33	4	50	5	5	5	21	4	5	4	21	4	52	5	11	9
10	5	7	5	22	5	38	5	9	4	37	4	53	5	20	5	54	10
11	5	35	5	59	6	21	6	44	5	10	5	29	6	19	6	45	11
12	6	26	6	47	7	7	7	34	5	49	6	12	7	11	7	44	12
13	7	10	7	35	8	3	8	35	6	37	7	4	8	16	8	51	13
14	8	0	8	26	9	7	9	41	7	31	8	3	9	27	10	2	14
15	8	54	9	24	10	15	10	50	8	36	9	11	10	37	11	11	15
16	9	56	10	26	11	25	11	58	9	49	10	24	11	46			16
17	10	56	11	29			0	30	10	59	11	34	0	21	0	47	17
18			0	2	1	0	1	29			0	9	1	15	1	44	18
19	0	32	1	0	1	58	2	26	0	39	1	8	2	12	2	39	19
20	1	28	1	55	2	48	3	7	1	37	2	5	3	0	3	19	20
21	2	21	2	47	3	25	3	42	2	30	2	53	3	37	3	56	21
22	3	6	2	23	3	59	4	16	3	12	3	30	4	17	4	39	22
23	3	41	3	58	4	37	4	58	3	48	4	5	5	1	5	24	23
24	4	17	4	36	5	20	5	41	4	26	4	47	5	50	6	18	24
25	4	55	5	14	6	8	6	35	5	9	5	32	6	47	7	17	25
26	5	37	6	0	7	5	7	35	6	0	6	28	7	49	8	21	26
27	6	27	6	54	8	10	8	47	6	58	7	28	8	53	9	25	27
28	7	24	7	54	9	20	10	2	8	2	8	38	9	57	10	27	28
29	8	24	9	4					9	13	9	4	10	56	11	23	29
30	9	40	10	18					10	22	10	54	11	49			30
31	10	54	11	29					11	26	11	56					31

This Table may serve the following Places, by adding

	h	m
For Tinmouth Haven, Hartle-pool, and Amsterdam	0	30
Brest — — — — —	1	0
Scilly — — — — —	1	45
Mount's Bay — — — — —	1	55
Bridlington Pier and Humber — — — — —	2	0

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

M. Days	MAY				JUNE				JULY				AUGUST			
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.	
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
1	0	15	0	38	1	5	1	28	1	16	1	42	2	34	2	54
2	1	1	1	22	1	51	2	14	2	8	2	31	3	12	3	30
3	1	43	2	4	2	37	2	55	2	53	3	28	3	46	4	3
4	2	24	2	42	3	12	3	29	3	28	3	44	4	19	4	38
5	3	0	3	16	3	45	4	2	4	0	4	19	4	58	5	18
6	3	31	3	47	4	18	4	37	4	38	4	57	5	39	6	4
7	4	2	4	19	4	58	5	18	5	16	5	38	6	30	6	58
8	4	36	4	55	5	39	6	4	6	1	6	27	7	27	8	1
9	5	15	5	38	6	30	7	56	6	53	7	21	8	36	9	14
10	6	1	6	28	7	23	7	53	7	50	8	18	9	5	10	30
11	6	56	7	24	8	25	8	59	8	57	9	30	11	7	11	43
12	7	53	8	26	9	34	10	7	10	9	10	43		0	19	12
13	9	1	9	36	10	41	11	26	11	23	11	58	0	50	1	20
14	10	17	10	45	11	52					0	33	1	48	2	15
15	11	18	11	50	0	24	0	56	1	5	1	36	2	37	2	58
16			0	22	1	27	1	57	2	5	2	34	3	14	3	29
17	0	52	1	22	2	20	2	52	2	56	3	15	3	44	3	57
18	1	52	2	21	3	13	3	32	3	32	3	48	4	12	4	28
19	2	46	3	7	3	50	4	7	4	4	4	20	4	44	5	19
20	3	28	3	47	4	28	4	49	4	38	4	56	5	18	5	35
21	4	7	4	27	5	9	5	28	5	13	5	31	5	57	6	19
22	4	49	5	11	5	50	6	12	5	50	6	11	6	43	7	7
23	5	35	5	59	6	36	7	0	6	34	6	56	7	33	8	0
24	6	25	6	52	7	24	7	47	7	24	7	49	8	31	9	2
25	7	19	7	4	8	13	8	40	8	14	8	40	9	36	10	11
26	8	15	8	44	9	8	9	36	9	9	9	41	10	45	11	19
27	9	12	9	41	10	3	10	31	10	12	10	43	11	51		27
28	10	8	10	35	11	0	11	29	11	15	11	48	0	23	0	5
29	11	2	11	29	11	57					0	17	1	21	1	49
30	11	54			0	24	0	50	0	46	1	13	2	16	2	37
31	0	19	0	42					1	41	2	8	2	58	3	16

Adding				h	m
For Fowey, Loo and Plymouth	—	—	—	3	10
Dartmouth, Harborough and Hull	—	—	—	3	30
Torbay and Tinmouth	—	—	—	3	40
Exmouth, Topsham and Lime	—	—	—	3	50
Weymouth	—	—	—	4	20
Bridgewater and Texel	—	—	—	4	40
Portland and Hartfleet	—	—	—	5	50

1795.

Tide Tables.

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Time of High-Water at LONDON in the morning and afternoon of every day in the year.

Mo. Days	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER				Mo. Days
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.		
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
1	3	33	3	49	3	57	4	17	5	16	5	43	5	46	6	13	1
2	4	5	4	25	4	38	5	0	6	10	6	40	6	40	7	6	2
3	4	45	5	6	5	22	5	49	7	11	7	42	7	32	8	0	3
4	5	27	5	53	6	17	6	48	8	14	8	46	8	29	8	57	4
5	6	19	6	49	7	20	7	56	9	18	9	49	9	25	9	52	5
6	7	20	7	55	8	32	9	7	10	20	10	49	10	20	10	47	6
7	8	32	9	10	9	47	10	16	11	16	11	43	11	13	11	40	7
8	9	40	10	25	10	50	11	21			0	10			0	6	8
9	11		11	35	11	52			0	33	0	56	0	30	0	54	9
10			0	10	0	18	0	44	1	18	1	39	1	17	1	39	10
11	0	38	1		1	7	1	30	2	1	2	23	2	8	2	27	11
12	1	30	1	54	1	52	2	14	2	40	2	58	2	46	3	5	12
13	2	17	2	39	2	38	2	51	3	13	3	28	3	21	3	36	13
14	2	56	3	11	3	6	3	21	3	43	3	57	3	51	4	6	14
15	3	25	3	30	3	24	3	47	4	14	4	32	4	25	4	44	15
16	3	53	4	5	4	1	4	16	4	51	5	10	5	3	5	22	16
17	4	21	4	38	4	34	4	52	5	32	5	54	5	44	6	6	17
18	4	54	5	11	5	11	5	30	6	20	6	46	6	31	6	56	18
19	5	31	5	51	5	54	6	19	7	13	7	40	7	23	7	51	19
20	6	16	6	40	6	46	7	15	8	11	8	42	8	21	8	52	20
21	7	6	7	32	7	43	8	14	9	15	9	49	9	27	10	2	21
22	8	5	8	38	8	47	9	21	10	21	10	53	10	36	11	11	22
23	9	13	9	49	9	55	10	29	11	26	11	59	11	46			23
24	10	23	10	56	11	2	11	35			0	29	0	21	0	53	24
25	11	30					0	5	0	50	1	29	1	25	1	57	25
26	0	4	0	32	0	36	1	5	1	59	2	27	2	29	2	48	26
27	1	2	1	30	1	32	2	0	2	53	3	14	3	15	3	35	27
28	1	57	2	47	2	28	2	50	3	34	3	54	3	53	4	13	28
29	2	46	3	5	3	10	3	30	4	13	4	37	4	32	4	52	29
30	3	23	3	40	3	48	4	8	5	0	5	23	5	11	5	32	30
31					4	29	4	52					5	53	6	14	31

Subtracting

h m

For Leigh, Maes, and Gouries Gut	—	—	—	—	0	5
Gravesend, Rochester, and Rammekins	—	—	—	—	1	20
Buoy of the Nore and Flushing	—	—	—	—	1	30
Portsmouth, Ostend, Shoe-Beacon, and Red-Sand	—	—	—	—	2	0
Harwich, Dover, Spithead, and Calais	—	—	—	—	3	0
Gunfleet, Hastings, Shoreham, Orfordness, and Dieppe	—	—	—	—	4	0
Yarmouth Pier and Needle	—	—	—	—	4	40
St. Helen's and Havre-de-Grace	—	—	—	—	5	10

The Eclipses of Jupiter's

JANUARY	FEBRUARY	MARCH	APRIL
The Satellites of Jupiter will not be visible this Month, Jupiter being too near the Sun.	Immersion	Immersion	Immersion
	1 22 40 12	2 6 16 16	1 8 26 27
	3 17 8 25	4 0 45 1	3 2 55 16
	5 11 36 43	5 19 13 47	4 21 24 6
	7 6 5 3	7 13 42 33	6 15 52 57
	9 0 33 23	9 8 11 20	8 10 21 47
	10 19 1 49	11 2 40 9	10 4 50 38
	12 13 30 14	12 21 8 58	11 23 19 25
	14 7 58 43	14 15 37 48	13 17 48 11
	16 2 27 13	16 10 6 39	15 12 16 57
	17 20 55 44	18 4 35 31	17 6 45 42
	19 15 24 20	19 23 4 23	19 1 14 21
	21 9 52 53	21 17 33 14	20 19 43 7
	23 4 21 31	23 12 2 6	22 14 11 49
	24 22 50 8	25 6 30 58	24 8 40 28
	26 17 18 48	27 0 59 51	26 3 9 6
	28 11 47 32	28 19 28 43	27 21 37 45
		30 13 57 35	29 16 6 22
MAY	JUNE	JULY	AUGUST
Immersion	Immersion	Immersion	Emergence
1 10 34 54	2 7 4 52	2 9 2 58	1* 13 22 50
3 5 3 28	4 1 33 1	4 3 31 11	3 7 51 40
4 23 31 57	5 20 1 6	5 21 59 26	5 2 20 33
6 18 0 28	7* 14 29 11	7 16 27 42	6 20 49 31
8 12 28 57	9 8 57 18	9* 10 56 2	8 15 18 30
10 6 57 21	11 3 25 23	11 5 24 21	10* 9 47 31
12 1 25 48	12 21 53 27	12 23 52 43	12 4 16 33
13 19 54 11	14 16 21 33	14 18 21 8	13 22 45 38
15* 14 22 31	16 10 49 40	16* 12 49 35	15 17 14 45
17 8 50 52	18 5 17 44	18 7 18 4	17 11 43 55
19 3 19 11	19 23 45 49	20 1 46 34	19 6 13 6
20 21 47 26	21 18 13 57	21 20 15 9	21 0 42 20
22 16 15 43	23* 12 42 2	23* 14 43 45	22 19 11 35
24 10 43 57	25 7 10 11	Emergence	24 13 40 53
26 5 12 9	27 1 38 22	25* 11 27 47	26* 8 10 13
27 23 40 22	28 20 6 33	27 5 56 28	28 2 39 34
29 18 8 33	30 14 34 43	29 0 25 13	29 21 8 56
31 12 36 42		30 18 54 1	31 15 38 20

first Satellite for the Year 1795.

SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
Emerfions	Emerfions	Emerfions	Emerfions
2* 10 7 46	2 12 29 30	1 14 47 16	1 16 53 12
4 4 37 10	4* 6 58 58	3 9 16 13	3 11 21 23
5 23 6 40	6 1 28 27	5 3 45 8	5* 5 49 33
7 17 36 8	7 19 57 54	6 22 13 59	7 0 17 40
9 12 5 38	9 14 27 22	8 16 42 47	8 18 45 48
11 6 35 11	11* 8 56 46	10 11 11 32	10 13 13 52
13 1 4 40	13 3 26 9	12* 5 40 14	12 7 41 55
14 19 34 14	14 21 55 30	14 0 8 54	14 2 9 55
15 14 3 44	16 16 24 50	15 18 37 32	15 20 37 55
18* 8 33 15	18 10 54 6	17 13 6 8	17 15 5 54
20 3 2 50	20 5 23 23	19* 7 34 41	19 9 33 53
21 21 32 21	21 23 52 36	21 2 3 11	21 4 1 51
23 16 1 57	23 18 21 48	22 20 31 39	22 22 29 48
25* 10 31 26	25 12 50 56	24 15 0 3	24 16 57 44
27 5 1 1	27* 7 20 4	26 9 28 24	26 11 25 41
28 23 30 31	29 1 49 8	28 3 56 43	28 5 53 38
30 17 59 58	30 20 18 12	29 22 24 58	30 0 21 35
			31 18 49 33

The Times of the Eclipses contained in this Table are adapted to the Meridian of the Royal Observatory at Greenwich, and afford an excellent Method to discover the Longitude, or Difference of Meridians, between that and any other Place; which I shall illustrate by an EXAMPLE:

Suppose on the 25th Day of September of this Year, the Time of the Emerfion of Jupiter's first Satellite be observed (by a Telescope) in an unknown Meridian, to happen at 12 h. 19 min. 46 sec.; I find by the Table, that the Time of this Emerfion will happen at the British Observatory, at 10 h. 31 min. 26 sec. the same day: The Difference of the Times is 1 hour 48 min. 20 sec. which being converted into Degrees and Minutes of the Equator, will make 27 deg. 5 min. the Longitude of the Place of Observation, to the East, because the Time is more than that at the British Observatory.

N. B. Those marked with an Asterisk are visible at Greenwich.

Speculum Phænomenorum

JANUARY		FEBRUARY		MARCH	
1	♂ ☾ ½ 5h.	3	♂ ☉ ♀ 16h.	2	☾ in perige
1	♂ ☉ ♀ 17h.	3	☾ eclipsed visible	9	♀ stationary
3	♀ in ☿	3	☾ in perige	12	♀ elong. max.
5	♂ ☉ ¼ 4h.	11	☐ ☉ ½ 5h.	16	♂ ¼ ☾ 7h.
6	☾ in perige	15	♂ ☾ ♂ 15h.	16	☾ in apoge
14	♀ in aphelion	16	♂ ☾ ¼ 11h.	17	♂ ☉ ☾ 1h.
16	♀ in perihelion	17	☾ in apoge	9	♂ ☉ ♀ 2h.
18	♂ ☾ ♀ 13h.	18	☉ in ♄ 2h. 33m.	20	☉ in ♄ 2h. 53m.
19	☉ in ♃ 11h. 46m.	19	♂ ☉ ☽ 9h.	20	♂ ☽ ☾ 7h.
19	♂ ☾ ¼ 14h.	20	♂ ☾ ♀ 0h.	20	♂ in ☿
19	♂ ☾ ♀ 17h.	21	♂ ☾ ♂ 15h.	22	♂ ♂ ☾ 11h.
20	☉ eclips. invisible	22	♀ in ☿	24	♂ ½ ☾ 4h.
21	☾ in apoge	24	♂ ☾ ½ 16h.	29	☾ in perige
22	♀ stationary	27	♀ in perihelion		
23	½ stationary				
23	♂ ☾ ♂ 18h.				
28	♂ ☾ ½ 10h.				
APRIL		MAY		JUNE	
1	♀ in ☿	7	♀ in aphelion	6	♂ ¼ ☾ 17h.
1	♀ stationary	10	☾ in apoge	6	☾ in apoge
6	♀ in ☿	10	♂ ¼ ☾ 11h.	14	♂ ♀ ☾ 4h.
12	♀ in aphelion	15	♂ ♀ ☾ 10h.	15	♂ ½ ☾ 3h.
13	♂ ¼ ☾ 0h.	17	♂ ☽ ☾ 13h.	16	♂ ♂ ☾ 19h.
13	☾ in apoge	18	♂ ½ ☾ 11h.	18	♂ ♀ ☾ 4h.
15	♂ ♀ ☾ 18h.	19	♂ ♂ ☾ 1h.	19	☾ in perige
16	♂ ☽ ☾ 21h.	19	☐ ☉ ☽ 22h.	21	☉ in ☿ 0h. 45m.
16	♀ elong. max.	20	☉ in ♀ 16h. 4m.	28	♀ elong. max.
19	☉ in ♄ 15h. 32m.	21	♀ in ☿	28	♀ in ☿
20	♂ ♂ ☾ 7h.	22	☾ in perige	29	☉ in aphelion
20	♂ ½ ☾ 19h.	23	♂ ☉ ½ 20h.		
25	☐ ☉ ¼ 22h.	24	♂ ☉ ♀ 16h.		
25	☾ in perige	25	¼ stationary		
		26	♀ in ☿		

ad Annum 1795.

JULY	AUGUST	SEPTEMBER
1 $\odot \delta$ 17h. 3 $\delta \sqcup$ 18h. 3 $\odot$ in apogee 9 δ in aphelion 12 $\delta \sqcup$ 16h. 12 δ stationary 13 $\delta \sqcup$ 23h. 15 $\delta \delta$ 12h. 15 $\odot$ ecl. invisible 16 $\delta \sqcup$ 23h. 16 $\odot$ in perige 22 $\odot$ in Ω 11h. 35m. 25 $\delta \odot \sqcup$ 3h. 26 $\delta \odot \delta$ 4h. 27 δ in δ 30 $\delta \sqcup$ 18h. 30 $\odot$ in apogee 31 $\odot$ ecl. partly visi.	6 δ stationary 9 $\delta \sqcup$ 3h. 12 $\delta \delta$ 19h. 12 $\delta \sqcup$ 21h. 12 $\odot$ in perige 13 $\delta \delta$ 5h. 14 δ elong. max. 17 δ in δ 22 $\odot$ in Ω 17h. 59m. 22 δ in perihelion 26 $\odot$ in apogee 26 $\delta \odot \delta$ 15h. 26 $\delta \sqcup$ 23h. 29 δ in perihelion	5 $\delta \sqcup$ 12h. 5 $\square \odot \sqcup$ 12h.- 8 $\odot$ in perige 8 $\delta \odot \delta$ 19h. 10 $\delta \delta$ 21h. 12 $\delta \sqcup$ 1h. 13 $\delta \delta$ 4h. 22 $\odot$ in δ 14h. 32m. 23 $\delta \sqcup$ 6h. 23 $\sqcup$ stationary 23 $\odot$ in apogee 24 δ in δ 25 δ stationary
OCTOBER	NOVEMBER	DECEMBER
2 $\delta \sqcup$ 19h. 5 $\odot$ in perige 5 δ in aphelion 9 $\delta \delta$ 13h. 12 $\delta \sqcup$ 7h. 14 $\delta \delta$ 10h. 15 $\delta \odot \sqcup$ 12h. 20 $\delta \sqcup$ 17h. 20 $\odot$ in apogee 22 $\square \odot \sqcup$ 21h. 22 $\odot$ in Ω 22h. 34m. 22 δ in aphelion 24 δ elong. max. 30 $\delta \sqcup$ 2h.	1 $\odot$ in perige 4 δ stationary 7 $\delta \delta$ 5h. 11 $\delta \sqcup$ 19h. 11 $\delta \delta$ 19h. 13 δ in δ 14 $\delta \odot \delta$ 22h. 16 $\odot$ in apogee 17 $\delta \sqcup$ 7h. 17 δ in δ 18 δ in aphelion 21 $\odot$ in δ 18h. 51m. 23 δ stationary 26 $\delta \sqcup$ 10h. 29 $\odot$ in perige 29 $\square \odot \delta$	1 $\delta \odot \sqcup$ 20h. 2 δ elong. max. 5 $\delta \delta$ 22h. 9 $\delta \delta$ 5h. 12 $\delta \sqcup$ 7h. 13 $\odot$ in apogee 14 $\delta \sqcup$ 22h. 18 δ in aphelion 21 $\odot$ in δ 7h. 15m. 21 δ in δ 23 $\delta \sqcup$ 16h. 26 $\odot$ in perige 29 $\odot$ in perihelion 31 δ in aphelion

A Table of the Sun's semi-diurnal Arches, or Times

The SUN's Declination North.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	8	6	8	6	8	6	9	6	9	6	9
2	6	12	6	13	6	13	6	14	6	14	6	15
3	6	17	6	18	6	18	6	19	6	19	6	20
4	6	22	6	22	6	22	6	24	6	25	6	25
5	6	26	6	27	6	27	6	29	6	30	6	31
6	6	31	6	32	6	33	6	34	6	36	6	37
7	6	36	6	37	6	38	6	40	6	41	6	43
8	6	41	6	42	6	43	6	45	6	47	6	48
9	6	45	6	47	6	48	6	50	6	52	6	54
10	6	50	6	52	6	54	6	56	6	58	7	0
11	6	55	6	57	6	59	7	1	7	3	7	6
12	7	0	7	2	7	4	7	7	7	9	7	12
13	7	5	7	7	7	10	7	12	7	15	7	18
14	7	10	7	13	7	15	7	18	7	21	7	24
15	7	15	7	18	7	21	7	24	7	27	7	31
16	7	21	7	24	7	27	7	30	7	33	7	37
17	7	26	7	29	7	33	7	36	7	40	7	44
18	7	31	7	35	7	38	7	42	7	46	7	51
19	7	37	7	41	7	45	7	49	7	53	7	58
20	7	43	7	47	7	51	7	55	8	0	8	5
21	7	49	7	53	7	57	8	2	8	7	8	12
22	7	55	7	59	8	4	8	9	8	14	8	20
23	8	1	8	6	8	11	8	16	8	22	8	28
24	8	7	8	12	8	18	8	24	8	30	8	36

By these Tables the Times of the Sun's Rising and Setting may be found, in any Part of the Kingdom of *Great-Britain* or *Ireland*, after the following Manner: Where the Latitude of the Place is known, take the Sun's Declination out of the Table, on the Noon of the Day you desire to know the Time of his Rising and Setting; and with it, according as it is either North or South, enter these Tables in the Left-

of his visible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat. 49	Lat. 50	Lat. 51	Lat. 52	Lat. 53	Lat. 54
	h m	h m	h m	h m	h m	h m
0	6 4	6 4	6 4	6 4	6 4	6 4
1	5 59	5 59	5 58	5 58	5 58	5 58
2	5 54	5 54	5 53	5 53	5 53	5 53
3	5 49	5 49	5 49	5 48	5 48	5 47
4	5 45	5 44	5 44	5 43	5 42	5 42
5	5 40	5 39	5 39	5 38	5 37	5 36
6	5 35	5 35	5 34	5 33	5 31	5 30
7	5 31	5 30	5 29	5 27	5 26	5 25
8	5 26	5 25	5 23	5 22	5 21	5 19
9	5 21	5 20	5 18	5 17	5 16	5 13
10	5 17	5 15	5 13	5 11	5 10	5 8
11	5 12	5 10	5 8	5 6	5 4	5 2
12	5 7	5 5	5 3	5 0	4 58	4 56
13	5 2	5 0	4 57	4 55	4 52	4 50
14	4 57	4 54	4 52	4 49	4 47	4 44
15	4 52	4 49	4 46	4 44	4 41	4 37
16	4 46	4 45	4 41	4 38	4 34	4 31
17	4 41	4 38	4 35	4 32	4 28	4 23
18	4 36	4 33	4 29	4 26	4 22	4 18
19	4 30	4 27	4 23	4 19	4 15	4 11
20	4 25	4 21	4 17	4 13	4 9	4 4
21	4 19	4 15	4 11	4 6	4 2	3 57
22	4 13	4 9	4 4	4 0	3 55	3 50
23	4 7	4 3	3 58	3 53	3 47	3 42
24	4 1	3 56	3 51	3 46	3 40	3 34

Left-hand Column, under the Word Degrees; then look for the Latitude of the Place in the Top of the Table; and in that Column, against the Sun's Declination, will be found the Time of his visible half Duration above the Horizon, or Time of his Setting, correct by Refraction; then subtract the Time of his Setting from 12 Hours, the Remainder will be the Time of his Rising; double the Time of his Setting, the

A Table of the Sun's semi-diurnal Arches, or Times

The Sun's Declination North.

Decl.	Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat. 60	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	9	6	10	6	10	6	10	6	11	6	11
2	6	15	6	16	6	16	6	17	6	17	6	18
3	6	21	6	22	6	22	6	23	6	24	6	25
4	6	27	6	28	6	29	6	30	6	31	6	32
5	6	32	6	34	6	35	6	36	6	38	6	39
6	6	38	6	40	6	41	6	43	6	44	6	46
7	6	44	6	46	6	48	6	49	6	51	6	53
8	6	50	6	52	6	54	6	56	6	58	7	1
9	6	55	6	58	7	1	7	3	7	5	7	8
10	7	2	7	5	7	7	7	10	7	13	7	16
11	7	8	7	10	7	14	7	17	7	20	7	23
12	7	15	7	18	7	21	7	34	7	27	7	31
13	7	21	7	24	7	28	7	31	7	35	7	39
14	7	28	7	31	7	35	7	39	7	43	7	47
15	7	34	7	39	7	42	7	46	7	51	7	56
16	7	41	7	45	7	49	7	54	7	59	8	4
17	7	48	7	52	7	57	8	1	8	7	8	13
18	7	55	8	0	8	5	8	10	8	16	8	22
19	8	2	8	7	8	13	8	19	8	25	8	32
20	8	10	8	15	8	21	8	28	8	35	8	42
21	8	18	8	24	8	30	8	37	8	45	8	53
22	8	26	8	32	8	39	8	47	8	55	9	4
23	8	34	8	41	8	49	8	57	9	6	9	16
24	8	43	8	51	8	59	9	8	9	18	9	29

he Sum will be the Length of the Day ; and double the Time of his Rising, the Sum will be the Length of the Night. But if the Latitude of the Place, and Declination of the Sun, consist of Degrees and Minutes, then a small Allowance must be made for the Minutes in both Cases, which may be done by a Person of an ordinary Capacity by a mental Proportion only. Thus, to find the Time of the Sun's Rising and Setting

of his visible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat. 55	Lat. 56	Lat. 57	Lat. 58	Lat. 59	Lat. 60
	h m	h m	h m	h m	h m	h m
0	6 4	6 4	6 4	6 4	6 4	6 4
1	5 58	5 58	5 58	5 58	5 57	5 57
2	5 52	5 52	5 52	5 51	5 51	5 50
3	5 47	5 46	5 45	5 45	5 44	5 43
4	5 41	5 40	5 39	5 38	5 37	5 36
5	5 35	5 34	5 33	5 32	5 31	5 29
6	5 29	5 28	5 27	5 25	5 24	5 22
7	5 23	5 22	5 20	5 19	5 17	5 15
8	5 17	5 16	5 14	5 12	5 10	5 8
9	5 12	5 10	5 8	5 5	5 3	5 2
10	5 5	5 3	5 1	4 59	4 56	4 53
11	4 59	4 57	4 54	4 52	4 49	4 46
12	4 53	4 51	4 48	4 45	4 42	4 38
13	4 47	4 44	4 41	4 38	4 34	4 30
14	4 41	4 37	4 34	4 30	4 27	4 23
15	4 34	4 31	4 27	4 23	4 19	4 14
16	4 27	4 24	4 20	4 15	4 11	4 6
17	4 21	4 17	4 12	4 8	4 3	3 57
18	4 14	4 9	4 5	4 0	3 54	3 48
19	4 7	4 2	3 56	3 51	3 45	3 39
20	3 59	3 54	3 49	3 43	3 36	3 29
21	3 52	3 46	3 40	3 34	3 27	3 19
22	3 44	3 38	3 31	3 24	3 17	3 9
23	3 36	3 29	3 23	3 15	3 6	2 57
24	3 27	3 20	3 13	3 5	2 55	2 45

at Aberdeen in Scotland, on the Longest Day; the Latitude of that Place is accounted 57 Degr. 7 Min. North, and the Sun's Declination 23 Deg. 28 Min. likewise North. By these you will find by the Table, that 5 Min. for the Sun's Declination, and 1 Min. for the Latitude of the Place, are both, to be added to 8 Hours 49 Min. the Time belonging to 57 Degr. of Latitude and 23 Degr. of North Declination, and the Sum will be 8 Hours 55 Min. the Time of his apparent Setting at Aberdeen, on the longest Day, whose Complement to 12 Hours, viz. 3 Hours 5 Min. will be the Time of his Rising, &c.

A Table of the Sun's Right-Ascension in Time, the greatest

Degr.	♈			♉			♊			♋			♌			♍		
	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
0	0	0	0	1	51	37	3	51	15	6	0	0	8	8	45	10	8	23
1	0	3	40	1	55	27	3	55	25	6	4	22	8	12	54	10	12	12
2	0	7	20	1	59	17	3	59	36	6	8	43	8	17	3	10	16	0
3	0	11	0	2	3	8	4	3	48	6	13	5	8	21	11	10	19	48
4	0	14	41	2	6	59	4	8	0	6	17	26	8	25	19	10	23	35
5	0	18	21	2	10	51	4	12	13	6	21	48	8	29	26	10	27	22
6	0	22	2	2	14	44	4	16	26	6	26	9	8	33	31	10	31	8
7	0	25	42	2	18	37	4	20	40	6	30	30	8	37	37	10	34	54
8	0	29	23	2	22	31	4	24	55	6	34	51	8	41	41	10	38	40
9	0	33	4	2	26	25	4	29	10	6	39	11	8	45	45	10	42	25
10	0	36	45	2	30	20	4	33	26	6	43	34	8	49	48	10	46	9
11	0	40	26	2	34	16	4	37	42	6	47	51	8	53	51	10	49	53
12	0	44	8	2	38	13	4	41	59	6	52	11	8	57	52	10	53	37
13	0	47	50	2	42	10	4	46	16	6	56	31	9	1	53	10	57	20
14	0	51	32	2	46	8	4	50	34	7	0	50	9	5	53	11	1	3
15	0	55	14	2	50	7	4	54	52	7	5	8	9	9	53	11	4	46
16	0	58	5	2	54	7	4	59	10	7	9	26	9	13	52	11	8	28
17	1	2	40	2	58	7	5	3	29	7	13	44	9	17	50	11	12	10
18	1	6	23	3	2	8	5	7	49	7	18	1	9	21	47	11	15	52
19	1	10	7	3	6	9	5	12	9	7	22	18	9	25	44	11	19	34
20	1	13	51	3	10	12	5	16	29	7	26	34	9	29	40	11	23	15
21	1	17	35	3	14	15	5	20	49	7	30	50	9	33	35	11	26	56
22	1	21	20	3	18	19	5	25	9	7	35	5	9	37	29	11	30	37
23	1	25	6	3	22	23	5	29	30	7	39	20	9	41	23	11	34	18
24	1	28	52	3	26	29	5	33	51	7	43	34	9	45	16	11	37	58
25	1	32	38	3	30	35	5	38	12	7	47	47	9	49	9	11	41	39
26	1	36	25	3	34	41	5	42	34	7	52	0	9	53	1	11	45	19
27	1	40	12	3	38	49	5	46	55	7	56	12	9	56	52	11	49	0
28	1	44	0	3	42	57	5	51	17	8	0	24	10	0	43	13	52	40
29	1	47	48	3	47	6	5	55	38	8	4	35	10	4	33	13	56	20
30	1	51	37	3	51	15	6	0	0	8	8	45	10	8	23	12	0	0

The time of the southing or meridian transits of the fixed stars in pa. 46, may be found thus. On the noon of the day, preceding the night in which you want to know the time of the southing of any of those stars, find the Sun's place in the Ephemeris, and with it take out of the above table his right ascension in time; this you may do by inspection to a minute, which will be sufficient for your present purpose: Then from the right-ascension of the star in pa. 46, subtract the right-ascension of the Sun, the remainder will be the estimate time of the star's southing, and will not differ from the true time above 2 or 3 minutes at most, which may be near enough for ordinary uses. But when great exactness is required, reduce the Sun's place to this estimate time, and with it find in the above table his right ascension to seconds, which being subtracted from that of the star, the remainder will be the

Obliquity of the Ecliptic being $23^{\circ} 28'$.

Deg.	α			μ			$\uparrow$			$\downarrow$			$\sim$			$\times$		
	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
0	12	0	0	13	51	37	15	51	15	18	0	0	20	8	45	22	8	23
1	12	3	40	13	55	27	15	55	25	18	4	22	20	12	54	22	12	12
2	12	7	20	13	59	17	15	59	36	18	8	43	20	17	3	22	16	0
3	12	11	0	14	3	8	16	3	48	18	13	5	20	21	11	22	19	48
4	12	14	41	14	6	59	16	7	0	18	17	26	20	25	10	22	23	35
5	12	18	21	14	10	51	16	12	13	18	21	48	20	29	26	22	27	22
6	12	22	2	14	14	44	16	16	26	18	26	9	20	33	31	22	31	8
7	12	25	42	14	18	37	16	20	40	18	30	30	20	37	37	22	34	54
8	12	29	23	14	22	31	16	24	55	18	34	51	20	41	41	22	38	40
9	12	33	4	14	26	25	16	29	10	18	39	11	20	45	45	22	42	25
10	12	36	45	14	30	20	16	33	26	18	43	31	20	49	48	22	46	9
11	12	40	26	14	34	16	16	37	42	18	47	51	20	53	51	22	49	53
12	12	44	8	14	38	13	16	41	59	18	52	11	20	57	52	22	53	37
13	12	47	50	14	42	10	16	46	16	18	56	31	21	1	53	22	57	20
14	12	51	32	14	46	8	16	50	34	19	0	50	21	5	53	23	1	3
15	12	55	14	14	50	7	16	54	52	19	5	8	21	9	53	23	4	46
16	12	58	57	14	54	7	16	59	10	19	9	26	21	13	52	23	8	28
17	13	2	40	14	58	7	17	3	29	19	13	44	21	17	50	23	12	10
18	13	6	23	15	2	8	17	7	49	19	18	1	21	21	47	23	15	52
19	13	10	7	15	6	9	17	12	9	19	22	18	21	25	44	23	19	34
20	13	13	51	15	10	12	17	16	29	19	26	34	21	29	40	23	23	15
21	13	17	35	15	14	15	17	20	49	19	30	50	21	33	35	23	26	56
22	13	21	20	15	18	19	17	25	9	19	35	5	21	37	29	23	30	37
23	13	25	6	15	22	23	17	29	30	19	39	20	21	41	23	23	34	18
24	13	28	52	15	26	29	17	33	51	19	43	34	21	45	16	23	37	58
25	13	32	38	15	30	35	17	38	12	19	47	47	21	49	9	23	41	39
26	13	36	25	15	34	41	17	42	34	19	52	0	21	53	1	23	45	19
27	13	40	12	15	38	49	17	46	55	19	56	12	21	56	52	23	49	0
28	13	44	0	15	42	57	17	51	17	20	0	24	22	0	43	23	52	40
29	13	47	48	15	47	6	17	55	38	20	4	35	22	4	33	23	56	20
30	13	51	37	15	51	15	18	0	0	20	8	45	22	8	23	24	0	0

the true time of the star's culminating or southing. And if from the time of the star's southing you subtract the semidiurnal arc belonging to it, the remainder will be the time of the star's rising; and being added to it, the sum will be the time of its setting.

Annexed is an Ex. of SIRIUS for Jan. 31, 1794.

☉'s place at noon $11^{\circ} 57'$	h	m	s
Rt. Asc. of Sirius -	-	6	35 58
☉'s rt. asc. subtract -	-	20	57 40
*'s estimate southing -	-	9	38 18
☉'s rt. asc. at that time sub.	-	20	59 0
*'s true southing -	-	9	36 58
Semid. arc sub. & add -	-	4	36 55
*'s rising aftern. -	-	5	00 03
*'s setting -	-	14	13 53

A Table of the mean Right-Ascensions in time, Semidurnal-Arcs, Declinations, and Magnitudes of 40 remarkable fixed Stars, with their Names and Bayer's Literal Characters, for January 1, 1790.

Names of the Stars	Ch.	Rt. Atc.			Declination			Semid. Ar.		
		h	m	s	°	'	"	h	m	s
Pole star, Alruccabah -	α	0	48	57	88	11	34	n	sets not	2
Andromeda's girdle, Mirach -	β	0	57	48	34	29	47	n	10 7 32	2
Andromeda's left foot, Almach	γ	1	51	10	41	18	41	n	sets not	2
Ram's following horn -	α	1	55	18	22	27	43	n	8 9 35	2
Whale's jaw, Menkar -	α	2	51	19	3	15	11	n	6 19 48	2
Medusa's head, 'Algol -	β	2	54	32	40	7	41	n	sets not	2
Perseus's right side, Algenib	α	3	9	26	49	7	6	n	sets not	2
Brightest of the 7 stars -	η	3	35	2	23	16	22	n	8 16 40	3
Bull's south eye, Aldebaran	α	4	23	51	16	4	19	n	7 28 51	1
Auriga's left shoulder, Capella	α	5	1	11	45	46	57	n	sets not	1
Orion's left foot, Rigel -	β	5	4	27	8	27	38	s	5 20 28	1
Bull's north horn -	β	5	12	57	28	25	12	n	8 57 12	2
Orion's left shoulder, Bellatrix	γ	5	13	54	6	8	50	n	6 34 41	2
Orion's girdle -	ϵ	5	25	32	1	21	22	s	5 56 42	2
Orion's right shoulder, Betelgeuse	α	5	43	46	7	21	2	n	6 40 58	1
In the great Dog's mouth, Sirius	α	6	35	58	16	25	8	s	4 36 55	1
Head of the 1st Twin, Castor	α	7	21	11	32	19	57	n	9 38 21	1
In the left Dog's thigh, Procyon	α	7	28	21	5	46	33	n	6 32 50	1
Head of the 2d Twin, Pollux	β	7	32	30	28	31	19	n	8 58 13	2
Hydra's heart, Alphard -	α	9	17	15	7	45	30	s	5 24 20	2
Lyon's heart, Regulus -	α	9	57	11	12	58	43	n	7 11 28	1
Great Bear, Lower Pointer	β	10	49	4	57	30	19	n	sets not	2
Great Bear, Upper Pointer -	α	10	50	39	62	53	25	n	sets not	2
Lion's tail, Deneb -	β	11	38	24	15	44	22	n	7 27 18	2
Great Bear, 1st in the tail, Aliath	ϵ	12	45	5	57	7	0	n	sets not	2
Virgius's spike -	α	13	14	10	10	3	38	s	5 12 20	1
Dragon's tail -	α	13	58	42	65	20	53	n	sets not	2
Bootes, Arcturus -	α	14	6	11	20	20	20	n	7 55 26	1
Libra, Southern Scale -	α	14	39	22	15	9	30	s	4 44 23	2
Libra, Northern Scale -	β	15	5	47	8	36	4	s	5 19 57	2
Bright star in the North Crown	α	15	25	49	27	25	35	n	8 48 36	2
Scorpion's heart, Antares	α	16	16	35	25	56	54	s	3 34 6	1
Hercules's head, Raf, Algethi	α	17	5	7	14	38	4	n	7 20 41	2
Head of Serpentarius -	α	17	25	8	12	43	20	n	7 9 50	2
Dragon's head, Raftaben -	γ	17	51	51	51	31	28	n	sets not	2
Bright star in the Harp, Lyra	α	18	29	45	38	35	39	n	sets not	1
Bright star in the Eagle, Atair	α	19	40	25	8	18	55	n	6 45 57	2
Mouth of south Fish, Fomalhaut	α	22	45	53	30	43	12	s	2 52 6	1
Pegasus's wing, Markab -	α	22	54	15	14	4	11	n	7 17 10	2
Andromeda's head -	α	23	57	29	27	55	38	n	8 52 19	2

A Table of the Longitudes, Latitudes, and Magnitudes of the most remarkable fixed Stars that the Moon can Eclipse, or make a near Appulse unto; exactly rectified to the beginning of the year 1790.

Con.	Cha.	Long.	Lat.	Mag.	Con.	Cha.	Long.	Lat.	Mag.
		° ' "	° ' "				° ' "	° ' "	
2	κ	♏ 11 13 11	2 9 44 n	4	2	η	12 9 29	0 21 48 n	2
2	ε	14 36 25	1 5 37 n	4	12	18 4 37	1 49 14 s	3	3
5	ζ	16 56 25	0 13 11 s	4	γ	22 12 9	4 24 41 n	3	3
8	δ	♏ 17 54 44	1 48 7 n	4	η	24 26 33	4 2 52 n	4	4
2	η	27 3 44	4 1 36 n	3	κ	24 49 47	0 1 1 n	4	4
2	γ	♏ 2 53 0	5 45 30 s	3	θ	26 56 12	3 29 24 n	4	4
0	ε	5 31 37	2 35 37 s	3	λ	27 32 46	0 6 53 n	4	4
1	α	6 51 20	5 29 2 s	1	μ	29 38 28	1 57 17 s	3	3
1	β	19 38 37	5 21 59 n	2	τ	0 0 35	5 26 15 s	3	3
8	ζ	21 51 15	2 13 29 s	3	β	0 15 33	1 2 18 n	2	2
1	η	♏ 0 30 37	0 55 4 s	4	ν	1 42 50	1 39 52 n	4	4
1	μ	2 22 2	0 50 34 s	3	σ	4 52 13	4 0 23 s	4	4
2	γ	5 10 20	6 46 12 s	2	α	6 49 58	4 32 17 s	1	1
8	ε	7 0 30	2 2 28 n	3	τ	8 31 42	6 5 21 s	4	4
5	δ	15 35 29	0 12 19 s	3	γ	28 20 3	6 56 48 s	2	2
1	β	20 19 34	6 40 4 n	1	μ	♏ 0 16 58	2 22 24 n	4	4
0	γ	♏ 4 36 51	3 10 22 n	4	λ	3 23 31	2 5 31 s	4	4
3	δ	5 47 9	0 4 13 n	4	φ	7 14 48	3 55 22 s	3	3
0	ε	18 43 23	3 1 57 s	4	σ	9 27 17	3 24 55 s	3	3
8	η	21 19 38	3 46 1 s	4	τ	11 54 32	5 2 33 s	3	3
2	α	24 58 23	4 51 9 n	4	ο	12 3 36	0 53 36 n	3	3
2	α	26 54 49	0 27 27 n	1	π	13 19 21	1 28 7 n	4	4
8	ρ	♏ 3 27 25	0 8 29 n	4	β	♏ 1 6 55	4 36 46 n	3	3
2	τ	18 34 47	0 31 21 s	4	ε	17 16 0	4 57 31 s	4	4
0	υ	22 6 32	3 2 51 s	4	γ	18 50 53	2 32 6 s	4	4
2	β	24 10 47	0 41 36 n	3	δ	20 36 5	2 33 40 s	3	3
6	ο	♏ 0 26 10	5 4 42 n	3	ι	25 47 17	2 3 47 s	4	4
3	η	1 54 16	1 22 24 n	3	θ	♏ 0 19 42	2 43 22 n	4	4
5	γ	7 14 41	2 48 57 n	3	λ	8 38 43	0 22 57 s	4	4
6		20 54 50	2 2 11 s	1	φ	14 12 35	1 2 8 s	4	4

This table shewing the mean longitudes of 60 stars to the beginning of the year 1790, their mean longitudes for any other time may be found if $50\frac{1}{3}$ seconds be added for each succeeding, and subtracted for each preceding year, and proportionably for a part of a year. Thus, to find the longitude of the first star κ δ, or δ piscium, for Feb. 15, 1792, or 2 years and one eighth after the tabular time; here $2\frac{1}{8}$ times $50\frac{1}{3}$ sec. make $1^{\circ} 47''$, which being added to the tabular longitude, gives ♏ 11° 14' 58" for the longitude required at the given time. — The latitudes vary not.

The Latitudes and Longitudes of Ninety Places.

	Lat.		Long.			Lat.		Long.	
	°	'	°	'		°	'	°	'
Alexandria, Egypt	31	11 n	30	17 e	Isfahan	32	25 n	52	55 e
Amsterdam, Hol.	52	23 n	4	52 e	Land's end	50	6 n	5	50 w
Archangel, Ruf.	64	34 n	38	30 e	Leghorn	43	33 n	10	25 e
Athens	37	40 n	23	52 e	Leostoff	52	38 n	1	54 e
Babelmandel	12	50 n	43	50 e	Liverpool	53	22 n	3	10 w
Batavia	6	12 s	106	45 e	Lima	12	1 s	76	50 w
Bengal	22	0 n	92	45 e	Lisbon	38	42 n	9	4 w
Berlin	52	33 n	13	26 e	Lizard	49	57 n	5	21 w
Bombay Isle	19	42 n	73	3 e	London	51	31 n	0	0
Boston, Amer.	42	25 n	70	37 w	Madras	13	8 n	80	7 e
Breslau	51	3 n	17	13 e	Madrid	40	25 n	3	45 w
Brest	48	23 n	4	30 w	Manilla	14	30 n	120	25 e
Brisfol	51	28 n	2	30 w	Marseilles	43	18 n	5	21 e
Buenos Ayres	34	35 s	58	0 w	Mexico	19	54 n	100	5 w
Cadiz	36	31 n	6	7 w	Mississipi, mouth	29	0 n	89	17 w
Calais	50	58 n	1	51 e	Moscow	55	25 n	37	51 e
Cairo, Egypt	30	2 n	31	26 e	Naples	40	51 n	14	19 e
Cambridge	52	13 n	0	4 e	Newcastle	55	0 n	1	18 w
Canaria Islands	28	1 n	15	0 w	Oporto	40	53 n	8	35 w
Canton	23	8 n	113	2 e	Orkney I. northend	59	24 n	3	23 w
Cape of Goodhope	34	29 s	18	23 e	Oxford	51	45 n	1	16 w
Cape Horn	55	59 s	67	26 w	Paris	48	50 n	2	25 e
Carthegena	10	27 n	75	26 w	Pekin	39	55 n	116	22 e
Charles Town Am.	33	22 n	79	50 w	Petersburg	59	56 n	30	19 e
Constantinople	41	0 n	28	53 e	Philadelphia	39	57 n	75	18 w
Copenhagen	55	41 n	12	50 e	Plymouth	50	24 n	4	15 w
Corinth	37	30 n	23	0 e	Port Mahon	39	51 n	3	53 e
Corke	51	54 n	8	30 w	Port Royal, Jam.	17	40 n	76	37 w
Dantzic	54	22 n	18	36 e	Portsmouth	50	48 n	1	1 w
Dover	51	7 n	1	19 e	Prague	50	5 n	14	15 e
Dublin	53	20 n	6	55 w	Quebec	46	55 n	71	12 w
Edinburgh	55	58 n	3	1 w	Rome	41	54 n	12	32 e
Ferro, Isle	27	48 n	18	6 w	Scilly Isles	50	0 n	6	45 w
Finisterre, Cape	42	57 n	9	36 w	Smyrna	38	28 n	27	25 e
Genoa	44	25 n	8	41 e	Stockholm	59	22 n	18	12 e
Gibraltar	36	5 n	4	46 w	Syracuse	37	4 n	15	20 e
Glasgow	55	52 n	4	5 w	Tangier	35	55 n	5	45 w
Goa	15	31 n	73	50 e	Teneriff	28	16 n	16	33 w
Gottingen	51	32 n	9	58 e	Tunis	38	7 n	10	16 e
Greenwich	51	29 n	0	5 e	Turn	45	5 n	7	45 e
Hacloit's Head.	79	55 n	12	0 e	Venice	45	27 n	12	24 e
Halifax, America	44	46 n	63	20 w	Verd, Cape	14	47 n	17	28 w
Havanna	23	12 n	81	11 w	Vienna	48	11 n	16	28 e
Helena, I. St.	15	55 s	5	49 w	Upsal	59	52 n	17	43 e
Jerusalem	31	50 n	35	25 e	Uraniberg	55	54 n	12	52 e